

# 标准物质目录

*Catalog of Reference  
Material*



**2013**



中国计量科学研究院  
National Institute of Metrology, China



国家标准物质资源共享平台  
National Sharing Platform for Reference Materials

# 前 言

标准物质是具有高度均匀性、良好稳定性和量值准确的测量标准，也是中华人民共和国计量法中依法管理的计量标准，它们具有复现、保存和传递量值的基本作用，对实现测量结果的溯源性，保证测量结果在时间与空间上的连续性与可比性，进而确保测量结果的可靠、有效与国际互认具有关键作用。其应用和支撑作用几乎涉及能源、矿产、环境、农业、制造业、交通运输业、健康、绿色节能、食品安全、国际贸易、国防等所有国家社会和经济发展的重点领域，是在上述领域内开展化学、生物、工程与物理量有效测量所必需的“标尺”与“砝码”。近几年来标准物质的需求量不断增长，同时也为标准物质的发展带来了新的挑战。具体体现在标准物质在品种及数量上有待扩充、标准物质自身的溯源性及质量有待于进行更严格的控制和提升、标准物质有效使用的概念有待于进一步在统一认识的基础上进行推广等方面。

在国家科技基础条件平台项目的滚动支持下，国家标准物质资源共享平台建设于2004年启动实施，网站([www.ncrm.org.cn](http://www.ncrm.org.cn))具有标准物质信息查询、应用宣传、政策法规与应用技术咨询、需求与研制技术交流、网上订购服务等功能，实现了全部国家有证标准物质资源的信息共享，建立了设施功能完善、动态信息化管理的国家标准物质实物库，对一千余种标准物质实行集中保存、管理和发放。同时，在科技部、国家质检总局等部委的支持下，中国计量科学研究院作为我国唯一的国家级标准物质专业研究机构，开展了大规模的标准物质研发工作，保持了每年上百种标准物质的增长速度，填补了我国在食品、环境、临床、能源等领域多项标准物质空白。

本目录中所列出的标准物质品种包括了由中国计量科学研究院研制的、目前处于正常发售状态的国家有证标准物质和工作级标准物质，以及根据标准物质需求组织的代销品种。其中，国家有证标准物质(GBW系列)由国家质量监督检验检疫总局批准并发布，工作级标准物质(BW系列)为仍处于标准物质研制期，尚未或正在申报国家有证标准物质，但符合标准物质基本技术要求的中国计量科学研究院标准物质。新增品种请及时登陆 [www.ncrm.org.cn](http://www.ncrm.org.cn) 进行查询。

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# 目 录

标准物质质量体系介绍 .....	1
标准物质溯源性政策 .....	5
标准物质使用中常见问题解答 .....	8
标准物质网上订购指南 .....	11
1. 钢铁 .....	18
碳素钢与碳素结构钢 .....	19
低合金钢 .....	19
高合金钢及不锈钢 .....	19
合金工具钢与模具钢 .....	20
金结构钢 .....	20
高温合金 .....	21
铁合金 .....	22
铸铁及生铁 .....	22
纯铁 .....	23
炉渣 .....	24
其它 .....	24
2. 有色金属 .....	25
重金属及合金 .....	26
轻金属及合金 .....	27
金属中气体 .....	27
稀土金属矿 .....	27
3. 地质矿产 .....	28
矿石 .....	29
岩石 .....	36
4. 能源 .....	43
煤炭 .....	44
燃油 .....	46
5. 建材 .....	47
粘土 .....	48
石灰岩 .....	48
石膏 .....	48
硅质砂岩 .....	49
石墨矿 .....	49

水泥 .....	49
其它 .....	50
6. 农业及环境 .....	51
河流、海洋沉积物 .....	52
土壤 .....	59
模拟天然水 .....	66
煤飞灰 .....	67
电子电气产品限令 .....	68
7. 工程技术及高聚物 .....	72
粒度及浊度 .....	73
表面积及微孔特性 .....	75
分子量 .....	75
8. 物理学与物理化学 .....	77
熔点 .....	78
酸度 .....	80
溶液电导率 .....	80
热量及热分析 .....	81
湿度 .....	82
黏度 .....	82
熔体流动速率 .....	83
标准色板 .....	83
渗透压摩尔浓度标准 .....	83
9. 核材料与放射性 .....	84
10. 临床与卫生 .....	88
11. 食品 .....	91
茶叶及烟草 .....	92
果蔬及草药 .....	92
粮食 .....	94
动物源制品 .....	96
白酒 .....	99
食用油 .....	99
营养及功能成分 .....	100
食品添加剂及限量物质 .....	102
食品包装中残留有害物质 .....	105
12. 高纯物质与容量分析用溶液标准物质 .....	106
高纯物质 .....	107

容量分析用溶液 .....	108
13. 仪器检定/校准用标准物质 .....	109
14. 无机溶液标准物质 .....	113
金属元素 .....	114
非金属元素及其它 .....	116
形态、价态分析 .....	117
生化及化学耗氧量 .....	118
稀土元素 .....	118
15. 有机溶液标准物质 .....	119
苯系物 .....	120
卤代烃 .....	120
酚类 .....	121
硝基苯 .....	122
氯苯 .....	122
多环芳烃 .....	123
多氯及多溴联苯(醚) .....	123
增塑剂 .....	124
其它 .....	124
16. 农药、兽药及化肥 .....	125
化肥 .....	126
农药 .....	126
兽药 .....	130
17. 激素及兴奋剂 .....	131
18. 蛋白质 & 核酸检测用标准物质 .....	133
19. 气体标准物质 .....	136

# Catalog

Introduction of the Quality System of Reference Materials.....	1
Traceability Policy of Reference Materials.....	5
1. Ferrous Metals.....	18
Carbon Steel and Carbon Structural Steel.....	19
Low Alloy Steel.....	19
High Alloy and Stainless Steel.....	19
Tool Steel and Die Steel.....	20
Structural Alloy Steel.....	20
Heat Resisting Alloy.....	21
Ferro-Alloy.....	22
Cast Iron.....	22
Pure Iron.....	23
Slag.....	24
Others.....	24
2. Non-ferrous Metals and Gases in Metals.....	25
Heavy Metals and Their Alloys.....	26
Light Metals and Their Alloys.....	27
Gases in Metals.....	27
Rare-earth Element Ore.....	27
3. Geology.....	28
Ore.....	29
Rock.....	36
4. Energy Resources.....	43
Coal.....	44
Fuel Oil.....	46
5. Building Materials.....	47
Clay.....	48
Limestone.....	48
Gypsum.....	48
Siliceous sandstone.....	49
Graphite ore.....	49
Cement.....	49
Others.....	50
6. Agriculture and Environment.....	51

Stream Sediment.....	52
Soil.....	59
Simulated Natural Water.....	66
Coal Ash.....	67
RoHS.....	68
7. Technological , Engineering and High Polymer.....	72
Particle Size and Turbidity.....	73
Surface area and micropore properties.....	75
Molecular Weight.....	75
8. Physics and Physico-Chemistry.....	77
Melting Point.....	78
pH.....	80
Aqueous Electrolytic Conductivity.....	80
Caloric and Thermal Analysis.....	81
Humidity and Moisture.....	82
Viscosity.....	82
Melt Flow Rate.....	83
Standard Color Plate.....	83
Osmolality Standard.....	83
9. Nuclear and Radioactivity.....	84
10. Clinic and Sanitation.....	88
11. Food.....	91
Tea and Tobacco.....	92
Fruits , Vegetables and Herbs.....	92
Foodstuff.....	94
Animal Derived Products.....	96
Alcohol.....	99
Edible Oil.....	99
Nutritional and Functional Components.....	100
Food Additives and Limited Components.....	102
Residual Contaminants in Food Packaging Materials.....	105
12. High Purity Materials and Standards for Volumetric Analysis.....	106
High Purity Materials.....	107
Standard Solution for Volumetric Analysis.....	108
13. Standards for Verification and Calibration of Analytical Instruments.....	109
14. Inorganic Solutions.....	113

Metals.....	114
Nonmetals and Others.....	116
Speciation.....	117
BOD and COD.....	118
Rare Earth Elements.....	118
15. Organic Solutions.....	119
Benzene Series.....	120
Halohydrocarbons.....	120
Phenols.....	121
Nitrobenzene Series.....	122
Clorlbenzene Series.....	122
PAHs.....	123
PCBs , PBBs and PBDEs.....	123
Plasticizer.....	124
Othes.....	124
16. Fertilizers, Pesticides and Veterinary Drugs.....	125
Fertilizers.....	126
Pesticides.....	126
Veterinary Drugs.....	130
17. Hormones and dopes.....	131
18. Protein&nucleic acid.....	133
19. Gases.....	136



# 1. 钢铁 /Ferrous Metals

碳素钢与碳素结构钢

Carbon Steel and Carbon Structural Steel

低合金钢

Low Alloy Steel

高合金钢及不锈钢

High Alloy and Stainless Steel

合金工具钢与模具钢

Tool Steel and Die Steel

合金结构钢

Structural Alloy Steel

高温合金

Heat Resisting Alloy

铁合金

Ferro-Alloy

铸铁及生铁

Cast Iron

纯铁

Pure Iron

炉渣

Slag

其它

Others

注：1. 方括号中的特性量提供不带不确定度的参考值。

Properties in square brackets provide reference values without uncertainties.

2. 编号前红星表示本期目录中新增品种。

## 碳素钢与碳素结构钢 /Carbon Steel and Carbon Structural Steel

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01209a	碳素结构钢成分分析标准物质	Carbon structural steel	150g	C, Si, Mn, P, S, Cu, Ni, Cr
GBW01210a	碳素结构钢成分分析标准物质	Carbon structural steel	150g	C, Si, Mn, P, S, Cu, Ni, Cr

## 低合金钢 /Low Alloy Steel

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01302	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cr, Cu, Al(s)
GBW01303	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cr, Cu, Al(s)
GBW01304	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cr, Cu, Al(s)
GBW01305	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cr, Cu, Al(s)
GBW01306	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cr, Cu, Al(s)
GBW01307	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Cr, Ni, Cu, V, Ti, Mo, Al(s), B(s)
GBW01308	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Cr, Ni, Cu, V, Ti, Mo, Al(s), B(s)
GBW01309	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Cr, Ni, Cu, V, Ti, Mo, Al(s), B(s)
GBW01310	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Cr, Ni, Cu, V, Ti, Mo, Al(s), B(s)
GBW01312	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Ni, Cu, V, Ti, Mo, Al(s), B(s), [Cr]
GBW01322	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cr, Ni, Cu, V, Ti, Al(s), Al(t), B(s), B(t)
GBW01334	低合金钢成分分析标准物质	Low alloy steel	150g	C, Si, Mn, P, S, Cu, Cr, Mo, Ni, Al(s), V, Co
GBW01336	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, W, Sn, Ni, Al(s), Co, Mo
GBW01337	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, W, Sn
GBW01338	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, W, Sn
GBW01339	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, W, Sn
GBW01340	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, W, Sn
GBW01343	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, Cr, Ni
GBW01344	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, Cr, Ni
GBW01345	低合金钢成分分析标准物质	Low alloy steel	100g	C, Si, Mn, P, S, Cu, Cr, Ni

## 高合金钢及不锈钢 /High Alloy and Stainless Steel

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01625	高合金钢成分分析标准物质	High alloy steel	100g	C, Si, Mn, S, P, Cr, Ni, Cu

## 合金工具钢与模具钢 /Tool Steel and Die Steel

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01318a	合金工具钢成分分析标准物质	Tool steel	150g	C, Si, Mn, P, S, Cr, Ni, W, Cu
GBW01319a	合金工具钢成分分析标准物质	Tool steel	150g	C, Si, Mn, P, S, Cr, Ni, W
GBW01369	模具钢成份分析标准物质	Die steel	100g	C, Mn, P, S, Si, Cr, V, Ni, Mo, Cu
GBW01392	热作模具钢成分分析标准物质	Hot-working die steel	100g	C, Si, Mn, P, S, Ni, Cr, Cu, Mo, V, Cu, Al(s), Al(is), Al(t), Co, Ti, [W], [As]
GBW01393	热作模具钢光谱分析标准物质	Hot-working die steel for spectral analysis	100g	C, Si, Mn, P, S, Ni, Cr, Cu, Mo, V, Cu, W, Al(s), Al(is), Al(t), Co, As, Ti

## 合金结构钢 /Structural Alloy Steel

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01351a	合金结构钢成分分析标准物质	Structural alloy steel	150g	C, Mn, Si, S, P, Ni, Cr, W, Mo, Al, Cu
GBW01352	合金结构钢成份分析标准物质	Structural alloy steel	100g	C, Mn, Si, S, P, Ni, Cr, W, Mo, Al, Cu
GBW01352a	合金结构钢成分分析标准物质	Structural alloy steel	150g	C, Mn, Si, S, P, Ni, Cr, W, Mo, Al, Cu
GBW01354	合金结构钢成分分析标准物质	Structural alloy steel	150g	C, Mn, Si, S, P, Ni, Cr, W, Mo, Cu, Ti
GBW01356a	合金结构钢成分分析标准物质	Structural alloy steel	150g	C, Si, Mn, P, S, Cr, Mo, Cu
GBW01357	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, S, P, Mn, Si, Ni, Cr, Cu, Mo, V
GBW01358	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, S, P, Mn, Si, Ni, Cr, Cu, Mo, V
GBW01359	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, S, P, Si, Mn, Cr, Mo, V, Sn, As, Pb, Sb, Bi, Ni
GBW01360	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, S, P, Si, Mn, Cr, Mo, V, Sn, As, Pb, Sb, Bi, Ni
GBW01361	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, S, P, Si, Mn, Cr, Mo, V, Sn, As, Pb, Sb, Bi, Ni
GBW01651	合金结构钢成分分析标准物质	10MnNb RE steel	150g	C, S, P, Si, Mn, Cr, Ni, Cu, Nb, Re, Al(s), N
GBW01652	合金结构钢成分分析标准物质	10MnNb RE steel	150g	C, S, P, Si, Mn, Cr, Ni, Cu, Nb, Re, Al(s), N
GBW01653	合金结构钢成分分析标准物质	10MnNb RE steel	150g	C, S, P, Si, Mn, Cr, Ni, Cu, Nb, Re, Al(s)
GBW01654	合金结构钢成分分析标准物质	Structural alloy steel	100g	C, P, S, Mn, Si, Cr, Ni, V, W, Ti, Al, Cu, Mo, Co

## 高温合金 /Heat Resisting Alloy

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01619	铁镍基高温合金痕量元素成分分析标准物质	Iron and nickel base high temperature alloy	150g	Ag, As, Bi, Ca, Cd, Ga, In, Mg, Pb, Sb, Se, Sn, Te, Tl, Zn
GBW01620	铁镍基高温合金痕量元素成分分析标准物质	Iron and nickel base high temperature alloy	150g	Ag, As, Bi, Ca, Cd, Ga, In, Mg, Pb, Sb, Se, Sn, Te, Tl, Zn
GBW01621	铁镍基高温合金痕量元素成分分析标准物质	Iron and nickel base high temperature alloy	150g	Ag, As, Bi, Ca, Cd, Ga, In, Mg, Pb, Sb, Se, Sn, Te, Tl, Zn
GBW01622	铁镍基高温合金痕量元素成分分析标准物质	Iron and nickel base high temperature alloy	150g	Ag, As, Bi, Ca, Cd, Ga, In, Mg, Pb, Sb, Se, Sn, Te, Tl, Zn
GBW01623	铁镍基高温合金痕量元素成分分析标准物质	Iron and nickel base high temperature alloy	150g	Ag, As, Bi, Ca, Cd, Ga, In, Mg, Pb, Sb, Se, Sn, Te, Tl, Zn
GBW01631	铁镍基铸造高温合金杂质成分分析标准物质	Cast iron-nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01632	铁镍基铸造高温合金杂质成分分析标准物质	Cast iron-nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01633	铁镍基铸造高温合金杂质成分分析标准物质	Cast iron-nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01634	铁镍基铸造高温合金杂质成分分析标准物质	Cast iron-nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01635	铁镍基铸造高温合金杂质成分分析标准物质	Cast iron-nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01626	镍基铸造高温合金杂质成分分析标准物质	Cast nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01627	镍基铸造高温合金杂质成分分析标准物质	Cast nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01628	镍基铸造高温合金杂质成分分析标准物质	Cast nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01629	镍基铸造高温合金杂质成分分析标准物质	Cast nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01630	镍基铸造高温合金杂质成分分析标准物质	Cast nickel base superalloy for trace elements	50g	As, Sb, Pb, Sn, Bi, Ag, Te, Tl, Se
GBW01636	镍基高温合金成分分析标准物质	Trace elements in nickel-base superalloy	Φ 33mm × 20mm	Ag, As, B, Bi, Cd, Ce, Cu, Ga, Ge, Hf, In, P, Pb, Sb, Sc, Se, Sn, Te, Tl, Zn
GBW01637	镍基高温合金成分分析标准物质	Trace elements in nickel-base superalloy	50g	Ag, As, B, Bi, Ce, Cu, Ga, Ge, Hf, In, P, Pb, Sb, Sc, Se, Sn, Te, Tl, Zn

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01638	镍基高温合金成分分析标准物质	Trace elements in nickel-base superalloy	50g	Ag, As, B, Bi, Ce, Cu, Ga, Ge, Hf, In, P, Pb, Sb, Sc, Se, Sn, Te, Tl, Zn
GBW01639	镍基高温合金成分分析标准物质	Trace elements in nickel-base superalloy	50g	Ag, As, B, Bi, Ce, Cu, Ga, Ge, Hf, In, P, Pb, Sb, Sc, Se, Sn, Te, Tl, Zn
GBW01640	镍基高温合金成分分析标准物质	Trace elements in nickel-base superalloy	50g	Ag, As, B, Bi, Ce, Cu, Ga, Ge, Hf, In, P, Pb, Sb, Sc, Se, Sn, Te, Tl, Zn
GBW01641	镍基高温合金成份分析标准物质	Nickel based high temperature alloy	50g	B, Bi, P, Pb
GBW01624	耐热合金成分分析标准物质	Heat-resisting alloy	100g	C, Si, Mn, P, S, Cr, Ni, W, Mo, V, Nb
GBW02551	高温合金成分分析标准物质	High-temperature alloy	150g	C, Mn, Si, S, P, Cr, Al, Ti, Cu, Nb, B, Fe, Zr, Ce

## 铁合金 /Ferro-Alloy

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01422	硅铁成份分析标准物质	Ferro silicon	50g	Si, P, Mn, C, S, Cr, Al, Ca
GBW01422a	硅铁成分分析标准物质	Ferro silicon	50g	Si, P, Mn, C, S, Cr, Al, Ca
GBW01432	硅铁成分分析标准物质	Ferro silicon	70g	Si, P, Mn, C, S, Cr, Cu, Ni, Ca, Al, Fe, V, Co, Ti, B, Ba, Mo, Mg, Sn, As, [O]
GBW01433	硅铁成分分析标准物质	Ferro silicon	70g	Si, P, Mn, C, S, Cr, Cu, Ni, Ca, Al, Fe, V, Co, Ti, B, Ba, Mo, Mg, Sn, As, [O]
GBW01425a	低碳铬铁成分分析标准物质	Low-carbon ferrochromium	70g	Si, P, Mn, C, S, Cr
GBW01428	钨铁成分分析标准物质	Ferro-tungsten	50g	Si, Mn, C, S, Cu, W, [P]
GBW01434	硅钙钡成分分析标准物质	Barium-calcium-silicon	70g	Si, P, Mn, C, S, Al, Ca, Fe, Cu, Cr, Ni, Ba

## 铸铁及生铁 /Cast Iron

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01117	铸铁喷粉碳硫成分分析标准物质	Cast iron for carbon and sulphur analysis	150g	C: (3.08 ± 0.02)%; S: (0.098 ± 0.002)%
GBW01119a	稀土球墨铸铁成分分析标准物质	Ductile iron	85g	C, Si, Mn, P, S, Cu, Cr, Ni, Mo, Co, Σ RE, Mg, V, Ti
GBW01120	高铬铸铁成分分析标准物质	High chromium cast iron	100g	C, Si, Mn, P, S, Cr, Mo, V, Ti
GBW01121	高铬铸铁成分分析标准物质	High chromium cast iron	100g	C, Si, Mn, P, S, Cr, Mo, V, Ti
GBW01122	高铬铸铁成分分析标准物质	High chromium cast iron	100g	C, Si, Mn, P, S, Cr, Ni, Mo, V, Ti



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01145	稀土镁铸铁成份分析标准物质	RE-Mg cast iron	80g	Cr, Co, Sn, P, Cu, Ti, Si, N, Re, Al(s), S, B, As, C, W, Mn, La, V, Mg, Ce, Ni, Mo, [Sb]
GBW01101b	生铁成份分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01101b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01102b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01103b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01104b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01105b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01106b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01107a	生铁成份分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01107b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01108a	生铁成份分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01108b	生铁成分分析标准物质	Cast iron	150g	C, Si, Mn, P, S, Ti, Cu
GBW01123	生铁成分分析标准物质	Pig iron	100g	C, Si, Mn, P, S, Cu, Co, Ni, V, Ti, Cr, Mo, Al(s), Pb, Sn, As, Sb, [Bi]
GBW01124	生铁成分分析标准物质	Pig iron	100g	C, Si, Mn, P, S, Cu, Co, Ni, V, Ti, Cr, Mo, Al(s), Pb, Sn, As, Sb, [Bi]

## 纯铁 /Pure Iron

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01146	纯铁中低碳硫成分分析标准物质	Low carbon and sulphur in pure iron	80g	C: (0.0025 ± 0.0005)%; S: (0.0019 ± 0.0002)%
GBW01401a	纯铁成分分析标准物质	Pure iron	150g	C, Si, Mn, P, S, Cr, Ni, Mo, Co, Cu, N, Al, Ti
GBW01403	工业纯铁成分分析标准物质	Armco iron	100g	C, Si, Mn, P, S, Ni, Cr, C, Al(t), N
GBW01404	工业纯铁成分分析标准物质	Armco iron	100g	C, Si, Mn, P, S, Ni, Cr, C, Al(t), N
GBW01404a	工业纯铁成分分析标准物质	Armco Iron	100g	C, Si, Mn, P, S, Ni, Cr, Cu, N, Al(t)
GBW01405	工业纯铁成分分析标准物质	Armco iron	100g	C, Si, Mn, P, S, Ni, Cr, C, Al(t), N
GBW01405a	工业纯铁成分分析标准物质	Armco Iron	100g	C, Si, Mn, P, S, Ni, Cr, Cu, N, Al(t)
GBW01406	工业纯铁成分分析标准物质	Armco iron	100g	C, Si, Mn, P, S, Ni, Cr, C, Al(t), N
GBW01406a	工业纯铁成分分析标准物质	Armco Iron	100g	C, Si, Mn, P, S, Ni, Cr, Cu, N, Al(t)
GBW01407	工业纯铁成分分析标准物质	Armco iron	100g	C, Si, Mn, P, S, Ni, Cr, C, Al(t), N
GBW01407a	工业纯铁成分分析标准物质	Armco Iron	100g	C, Si, Mn, P, S, Ni, Cr, Cu, N, Al(t)

## 炉渣 /Slag

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01704	转炉渣成分分析标准物质	Converter slag	50g	SiO <sub>2</sub> , TCa, MgO, Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , TFe, MnO, P <sub>2</sub> O <sub>5</sub> , F, S
GBW01705	转炉渣成分分析标准物质	Converter slag	50g	SiO <sub>2</sub> , TCa, MgO, Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , TFe, MnO, P <sub>2</sub> O <sub>5</sub> , F, S
GBW01706	转炉渣成分分析标准物质	Converter slag	50g	SiO <sub>2</sub> , TCa, MgO, Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , TFe, MnO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , F, S
GBW01708	转炉渣成分分析标准物质	Converter slag	50g	SiO <sub>2</sub> , TCa, MgO, Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , TFe, MnO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , F, S

## 其它 /Others

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW01502	精密合金成分分析标准物质	Precision alloy	100g	C, S, P, Si, Mn, Ni, Cr, Cu, Co, Mo, Ti
GBW01503	精密合金成分分析标准物质	Precision alloy	100g	C, Mn, Si, P, S, Ni, Co
GBW01531	硫磷易切钢成分分析标准物质	Sulfur-phosphorus free cutting steel	150g	C, S, P, Si, Mn
GBW01532	硫磷易切钢成分分析标准物质	Sulfur-phosphorus free cutting steel	150g	C, S, P, Si, Mn
GBW01533	硫磷易切钢成分分析标准物质	Sulfur-phosphorus free cutting steel	150g	C, S, P, Si, Mn
GBW01534	硫磷易切钢成分分析标准物质	Sulfur-phosphorus free cutting steel	150g	C, S, P, Si, Mn
GBW01317b	轴承钢成分分析标准物质	Bearing steel	100g	C, Si, Mn, P, Mo, Cr, Cu, Ni, Sn, As, Sb, Ti, Al(t), Al(s), [S]
GBW01341	轴承钢碳、硫成分分析标准物质	Carbon and sulphur in bearing steel	50g	C: (1.014 ± 0.006)%; S: (0.0078 ± 0.0005)%
GBW01321	刃口钢成分分析标准物质	Edge steel	150g	C, S, P, Si, Mn, Cr, Ni, Cu, Al, V, N, Mo
GBW01372	硅钢成分分析标准物质	Silicon steel	100g	C, S, P, Mn, Si, Ni, Cr, Cu, Mo, Al(s), Al(is)
GBW01373	硅钢成分分析标准物质	Silicon steel	100g	C, S, P, Mn, Si, Ni, Cr, Cu, Mo, Al(s), Al(is)
GBW01374	硅钢成分分析标准物质	Silicon steel	100g	C, S, P, Mn, Si, Ni, Cr, Cu, Mo, Al(s), Al(is)

## 2. 有色金属 /Non-ferrous Metals and Gases in Metals

重金属及合金

Heavy Metals and Their Alloys

轻金属及合金

Light Metals and Their Alloys

金属中气体

Gases in Metals

稀土金属矿

Rare-earth Element Ore



## 重金属及合金 /Heavy Metals and Their Alloys

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW02101	铁黄铜成分分析标准物质	Iron brass	100g	Cu, Fe, Mn, Al, Sn, Pb, Sb, Bi, P
GBW02103	锰黄铜成分分析标准物质	Manganese brass	100g	Cu, Fe, Mn, Al, Sn, Pb, Sb, P
GBW02116	铅黄铜成分分析标准物质	Lead brass	100g	Cu, Fe, Al, Sn, Pb, Sb, Bi, P, Zn, Ni
GBW02110	铝黄铜成分分析标准物质	Aluminium brass	100g	Cu, Fe, Al, Sn, Pb, Sb, Bi, P, Ni, As
GBW02102	铝青铜成分分析标准物质	Aluminium bronze	100g	Fe, Mn, Al, Sn, Pb, Sb, P, Zn, Ni, Si, As
GBW02117	铝青铜成分分析标准物质	Aluminium bronze	100g	Al, Mn, Fe, Ni, Pb, Si, Sn, Zn, P, Cu
GBW02118	铝青铜成分分析标准物质	Aluminium bronze	100g	Al, Mn, Fe, Ni, Pb, Si, Sn, Zn, P, Sb, As, Cu
GBW02119	铝青铜成分分析标准物质	Aluminium bronze	100g	Al, Mn, Fe, Ni, Pb, Si, Sn, Zn, P, Sb, As, Cu
GBW02121-02126	铝青铜光谱分析标准物质	Aluminium bronze(for optical emission spectroscopic analysis)	Φ30mm×35mm, set(6)	Al, Mn, Fe, Ni, Pb, Si, Sn, Zn, Cu
GBW02132	磷青铜成分分析标准物质	Phosphor bronze	150g	Cu, Sn, P
GBW02133	磷青铜成分分析标准物质	Phosphor bronze	150g	Cu, Sn, P
GBW02134	磷青铜成分分析标准物质	Phosphor bronze	150g	Cu, Sn, P
GBW02135	磷青铜成分分析标准物质	Phosphor bronze	150g	Cu, Sn, P
GBW02136	磷青铜成分分析标准物质	Phosphor bronze	150g	Cu, Sn, P, Pb, Fe, Sb, Si
GBW02137	青铜成分分析标准物质	Bronze	100g	Cu, Sn, Pb, Zn
GBW02138	青铜成分分析标准物质	Bronze	100g	Cu, Sn, Pb, Zn
GBW02139	青铜成分分析标准物质	Bronze	100g	Cu, Sn, Pb, Zn, Ni
GBW02140	青铜成分分析标准物质	Bronze	100g	Cu, Sn, Pb, Zn
GBW02104	锌白铜成分分析标准物质	Nickel silver	100g	Fe, Mn, Pb, Sb, Bi, P, Zn, Ni, Si, As, Mg
GBW02105-02109	锌白铜光谱分析标准物质	Nickel silver(for optical emission spectroscopic analysis)	Φ30mm×35mm, set(5)	Fe, Mn, Pb, Sb, Bi, Si, As, Mg, [Zn], [Ni]
GBW02111-02115	纯铜光谱分析标准物质	Purity copper(for optical emission spectroscopic analysis)	Φ8mm×140mm, set(5)	Fe, Sn, Pb, Sb, Bi, Zn, Ni, As
GBW02402	铅基合金成分分析标准物质	Lead-base alloy	100g	Pb, Sn, Sb, Cu, Bi, As
GBW02302	锡基合金成分分析标准物质	Tin-base alloy	100g	Sn, Sb, Cu, Pb, Bi, As

## 轻金属及合金 /Light Metals and Their Alloys

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW02201	变形铝合金成分分析标准物质	Aluminium alloy	50g	Cu, Mg, Mn, Fe, Si, Zn, Ti, Ni, Be
GBW02202	变形铝合金成分分析标准物质	Aluminium alloy	50g	Cu, Mg, Mn, Fe, Si, Zn, Ti, Ni, Pb
GBW02203	变形铝合金成分分析标准物质	Aluminium alloy	50g	Cu, Mg, Mn, Fe, Si, Zn, Ti, Ni, Cr, Sn
GBW02220	变形铝合金成分分析标准物质	Aluminium alloy	50g	Cu, Mg, Mn, Fe, Si, Zn, Ti, Ni
GBW02215-02219	铝合金光谱分析标准物质	Aluminium alloy(for optical emission spectroscopic analysis)	club-shaped: Φ7mm×130mm; disk: Φ40mm×45mm; set(5)	Fe, Si, Cu, Mg, Mn, Zn, Ti, Cr
GBW(E)020036	铝合金 5B06(LF14) 化学分析用标准物质	Aluminium alloy 5B06(LF14) (for chemical analysis)	100g	Zr, Mn, Cu, Mg, Ti, Zn, Be, Cr, Fe, Si
GBW(E)020037	铝合金 5B06(LF14) 光谱分析用标准物质	Aluminium alloy 5B06(LF14) (for spectroscopic analysis)	50g	Zr, Mn, Cu, Mg, Ti, Zn, Be, Cr, Fe, Si
GBW02210-GBW02214	精铝光谱分析标准物质	Refined aluminium(for optical emission spectroscopic analysis)	Φ10mm×120mm, set(5)	Fe, Si, Cu
GBW02351	稀土镁合金成分分析标准物质	Magnesium alloy	50g	Cu, Mn, Ni, RE, Zn, Zr
GBW02501	钛合金成分分析标准物质	Titanium-base alloy	50g	C, Si, Cr, Mo, Al, Zr, Fe, N
GBW02502	钛合金成分分析标准物质	Titanium-base alloy	50g	C, Si, Mo, Al, Zr, Fe, N

## 金属中气体 /Gases in Metals

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW02613	铜中氧成分分析标准物质	Oxygen in copper rod	Φ7mm×70mm	$(333 \pm 5) \times 10^{-6}$

## 稀土金属矿 /Rare-earth Element Ore

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW02901	氧化钇成分分析标准物质	Impurity constituents in yttrium oxide	10g	CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , CaO, CuO, Fe <sub>2</sub> O <sub>3</sub> , NiO, PbO, SiO <sub>2</sub>
GBW02902	氧化铕成分分析标准物质	Impurity constituents in europium oxide	5g	La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Na <sub>2</sub> O, CaO, Fe <sub>2</sub> O <sub>3</sub> , NiO, CuO, ZnO, PbO <sub>2</sub> , [SiO <sub>2</sub> ]

### 3. 地质矿产 /Geology

矿石

Ore

岩石

Rock

## 矿石 /Ore

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07228	金地质成分分析标准物质	Geological reference material for gold	500g	$(3.4 \pm 0.2) \times 10^{-9}$
GBW07229	金地质成分分析标准物质	Geological reference material for gold	500g	$(52 \pm 3) \times 10^{-9}$
GBW07230	金地质成分分析标准物质	Geological reference material for gold	1000g	$(1.33 \pm 0.02) \times 10^{-6}$
GBW(E)070018	矿石中金成分分析标准物质	Gold in ore	1000g	$(0.27 \pm 0.03) \times 10^{-6}$
GBW(E)070019	矿石中金成分分析标准物质	Gold in ore	1000g	$(0.42 \pm 0.03) \times 10^{-6}$
GBW07207	矿石中金和银成分分析标准物质	Gold and silver in ore	1kg	Au: $(0.008 \pm 0.001) \times 10^{-6}$ ; Ag: $(0.33 \pm 0.01) \times 10^{-6}$
GBW07801	金矿石金银成分国家标准物质	Gold ore certified reference material of gold and silver	1000g	Au: $(57.2 \pm 0.9)\text{g/T}$ ; Ag: $(43.4 \pm 1.2)\text{g/T}$
GBW07802	金矿石金银成分国家标准物质	Gold ore certified reference material of gold and silver	750g	Au: $(37.3 \pm 0.9)\text{g/T}$ ; Ag: $(26.2 \pm 0.9)\text{g/T}$
GBW07803	金矿石金银成分国家标准物质	Gold ore certified reference material of gold and silver	500g	Au: $(20.9 \pm 0.4)\text{g/T}$ ; Ag: $(63.1 \pm 1.2)\text{g/T}$
GBW07804	金矿石金银成分国家标准物质	Gold ore certified reference material of gold and silver	500g	Au: $(2.5 \pm 0.2)\text{g/T}$ ; Ag: $(7.8 \pm 0.3)\text{g/T}$
GBW07255	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(46.9 \pm 1.1) \times 10^{-6}$
GBW07256	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(112 \pm 4) \times 10^{-6}$
GBW07257	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(298 \pm 10) \times 10^{-6}$
GBW07258	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(446 \pm 9) \times 10^{-6}$
GBW07259	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(559 \pm 15) \times 10^{-6}$
GBW07260	银矿石中银成分分析标准物质	Silver in silver ore	50g	$(732 \pm 10) \times 10^{-6}$
GBW07242	化探金标准物质	Gold for geochemical exploration	1kg	$(0.5 \pm 0.1) \times 10^{-9}$
GBW07243	化探金标准物质	Gold for geochemical exploration	1kg	$(1.5 \pm 0.2) \times 10^{-9}$
GBW07244	化探金标准物质	Gold for geochemical exploration	1kg	$(5.3 \pm 0.2) \times 10^{-9}$
GBW07245	化探金标准物质	Gold for geochemical exploration	1kg	$(11.4 \pm 0.7) \times 10^{-9}$
GBW07246	化探金标准物质	Gold for geochemical exploration	1kg	$(21.5 \pm 1.1) \times 10^{-9}$
GBW07247	化探金标准物质	Gold for geochemical exploration	1kg	$(50 \pm 2) \times 10^{-9}$
GBW07248	化探金标准物质	Gold for geochemical exploration	1kg	$(100 \pm 3) \times 10^{-9}$

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07219b	烧结矿成分分析标准物质	Sintering	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Ni
GBW07220	球团矿成分分析标准物质	Pellet	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Ni
GBW07220a	球团矿成分分析标准物质	Pellet	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Ni
GBW07222	菱铁矿成分分析标准物质	Siderite	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Co, Ni
GBW07222a	菱铁矿成分分析标准物质	Siderite	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Co, Ni
GBW07223	赤铁矿成分分析标准物质	Hematite	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Cu, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, Co, Ni
GBW07271	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, SFe, CFe, TFe, [SiFe], [OFe]
GBW07272	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, SFe, CFe, TFe, [SiFe], [OFe]
GBW07273	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, SFe, CFe, TFe, [SiFe], [OFe]
GBW07274	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, CFe, TFe, [SiFe], [OFe], [SFe]
GBW07275	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, CFe, TFe, [SiFe], [OFe], [SFe]
GBW07276	铁矿石物相成分分析标准物质	Chemical phase analyses of iron ore	100g	MFe, CFe, TFe, [SiFe], [OFe], [SFe]
★ GBW(E)070091	铁矿石成分分析标准物质	Iron ore	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO
★ GBW(E)070092	铁矿石成分分析标准物质	Iron ore	100g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, TFe, Mn, P, S, Ti, K <sub>2</sub> O, Na <sub>2</sub> O, FeO
GBW07231	锡精矿成分分析标准物质	Tin concentrate	100g	Sn, Pb, Fe, As, Sb, Bi, Zn, S, Ag
GBW07232	锡精矿成分分析标准物质	Tin concentrate	100g	Sn, Pb, Fe, As, Sb, Bi, Zn, S, Cu, SiO <sub>2</sub> , WO <sub>3</sub>
GBW07171	铅矿石成分分析标准物质	Lead ore	40g	Cu, Pb, Zn, As, Ag, Bi, Mn, S, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, Na <sub>2</sub> O, [MgO], [K <sub>2</sub> O]
GBW07172	铅矿石成分分析标准物质	Lead ore	40g	Cu, Pb, Zn, Mn, S, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [As], [Ag], [Bi]

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GBW07167	铅精矿成分分析标准物质	Pb concentrate	50g	Cu, Pb, Zn, Fe, S, As, SiO <sub>2</sub> , Ag, Cd, Ge, Sb, Hg, [Al <sub>2</sub> O <sub>3</sub> ], [CaO], [MgO], [K <sub>2</sub> O], [Na <sub>2</sub> O], [W], [Bi], [Ga], [Se], [Mo], [Mn]
GBW07173	锌矿石成分分析标准物质	Zinc ore	40g	Cu, Pb, Zn, Ag, Bi, Hg, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [S], [As], [MnO]
GBW07168	锌精矿标准物质	Zn concentrate	50g	Cu, Al <sub>2</sub> O <sub>3</sub> , Pb, Zn, Fe, MgO, Mn, S, Ag, Cd, Ga, Ge, As, Sb, Hg, SiO <sub>2</sub> , [CaO], [K <sub>2</sub> O], [In], [Se], [W], [Bi]
GBW07164	富铜(银)矿石成分分析标准物质	Rich Cu (Ag) ore	50g	As, Cu, Pb, Zn, Cd, Fe, S, Ag, Ga, Ge, In, Se, Re, Mo, W, Sb, Bi, Sn, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [Ti], [Te]
GBW07165	富铅锌矿石成分分析标准物质	Rich Pb and Zn ore	50g	As, Cu, Pb, Zn, Cd, Fe, S, Ag, Ga, Ge, In, Ti, Mo, W, Sb, Bi, Sn, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O
GBW07150	铍矿石成分分析标准物质	Beryllium ore	100g	BeO, $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, Mo, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, H <sub>2</sub> O <sup>+</sup> , F, Na <sub>2</sub> O, L.O.I., [FeO], [P <sub>2</sub> O <sub>5</sub> ]
GBW07151	铍矿石成分分析标准物质	Beryllium ore	100g	BeO, $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>3</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, Mo, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, H <sub>2</sub> O <sup>+</sup> , F, Na <sub>2</sub> O, L.O.I., [FeO], [P <sub>2</sub> O <sub>5</sub> ]
GBW07152	锂矿石成分分析标准物质	Lithium ore	100g	BeO, Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Ta <sub>2</sub> O <sub>5</sub> , Nb <sub>2</sub> O <sub>5</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>2</sub> , Y <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, F, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , L.O.I., [Eu <sub>2</sub> O <sub>3</sub> ], [Sn], [FeO]
GBW07153	锂矿石成分分析标准物质	Lithium ore	100g	BeO, Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Ta <sub>2</sub> O <sub>5</sub> , Nb <sub>2</sub> O <sub>5</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, F, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , L.O.I., Eu <sub>2</sub> O <sub>3</sub> , Sn, [FeO], [La <sub>2</sub> O <sub>3</sub> ], [Ho <sub>2</sub> O <sub>3</sub> ]

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GBW07156	锆矿石成分分析标准物质	Zirconium ore	100g	ZrO <sub>2</sub> , HfO <sub>2</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , Th, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , L.O.I.
GBW07174	锑矿石成分分析标准物质	Antimony ore	40g	Cu, Pb, Zn, Sb, Au, As, Ni, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, [Mn], [S], [W], [K <sub>2</sub> O]
GBW07175	锑矿石成分分析标准物质	Antimony ore	40g	Cu, Pb, Zn, Sb, Au, As, Fe, Mn, S, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [Al <sub>2</sub> O <sub>3</sub> ]
GBW07176	锑矿石成分分析标准物质	Antimony ore	40g	Cu, Pb, Zn, Sb, Mn, Ni, S, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, [MgO], [Al <sub>2</sub> O <sub>3</sub> ], [K <sub>2</sub> O], [Na <sub>2</sub> O], [As]
GBW07154	钽矿石成分分析标准物质	Tantalum ore	100g	BeO, Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Ta <sub>2</sub> O <sub>5</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , CeO <sub>2</sub> , La <sub>2</sub> O <sub>3</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Nb <sub>2</sub> O <sub>5</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, F, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , L.O.I., [Sn], [FeO]
GBW07155	钽矿石成分分析标准物质	Tantalum ore	100g	BeO, Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Ta <sub>2</sub> O <sub>5</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , CeO <sub>2</sub> , La <sub>2</sub> O <sub>3</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Nb <sub>2</sub> O <sub>5</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , W, F, SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , L.O.I., [Sn], [FeO]
GBW07157	锆矿石成分分析标准物质	Zirconium ore	100g	ZrO <sub>2</sub> , HfO <sub>2</sub> , $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Th, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, CaO, MgO, MnO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , F <sup>-</sup> , H <sub>2</sub> O <sup>+</sup> , L.O.I., [Gd <sub>2</sub> O <sub>3</sub> ]
GBW07158	稀土矿石成分分析标准物质	Rare earth ore	100g	Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, $\Sigma$ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Th, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, MnO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , F <sup>-</sup> , H <sub>2</sub> O <sup>+</sup> , L.O.I., [Y <sub>2</sub> O <sub>3</sub> ], [FeO], [Er <sub>2</sub> O <sub>3</sub> ], [CaO]



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GBW07160	稀土矿石成分分析标准物质	Rare earth ore	100g	Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Σ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Th, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, MnO, K <sub>2</sub> O, Na <sub>2</sub> O, F <sup>-</sup> , H <sub>2</sub> O <sup>+</sup> , L.O.I., [CaO], [Pr <sub>6</sub> O <sub>11</sub> ], [P <sub>2</sub> O <sub>5</sub> ], [Gd <sub>2</sub> O <sub>3</sub> ], [FeO], [TiO <sub>2</sub> ]
GBW07161	稀土矿石成分分析标准物质	Rare earth ore	100g	Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, Σ RE <sub>x</sub> O <sub>y</sub> , La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> , Pr <sub>6</sub> O <sub>11</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>4</sub> O <sub>7</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , Yb <sub>2</sub> O <sub>3</sub> , Lu <sub>2</sub> O <sub>3</sub> , Y <sub>2</sub> O <sub>3</sub> , Sc <sub>2</sub> O <sub>3</sub> , Th, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, MnO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, F <sup>-</sup> , H <sub>2</sub> O <sup>+</sup> , L.O.I., [P <sub>2</sub> O <sub>5</sub> ], [FeO]
GBW07177	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., CaO, MgO, K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , H <sub>2</sub> O <sup>+</sup> , S, MnO, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [Na <sub>2</sub> O]
GBW07178	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., CaO, MgO, K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , H <sub>2</sub> O <sup>+</sup> , S, MnO, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [Na <sub>2</sub> O]
GBW07179	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , H <sub>2</sub> O <sup>+</sup> , S, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [MnO]
GBW07180	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., MgO, K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , H <sub>2</sub> O <sup>+</sup> , S, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [MnO], [CaO], [Na <sub>2</sub> O]
GBW07181	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , CaO, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [MgO], [MnO], [Na <sub>2</sub> O]
GBW07182	铝土矿成分分析标准物质	Bauxite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., CaO, MgO, K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , H <sub>2</sub> O <sup>+</sup> , S, Li, Cu, Pb, Zn, Sr, Zr, V, Ga, Cr, [MnO], [Na <sub>2</sub> O]
GBW07201	铬铁矿成分分析标准物质	Chromite	200g	Cr <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , S, NiO, CoO, V <sub>2</sub> O <sub>5</sub> , TFe <sub>2</sub> O <sub>5</sub> , Pt, Pd, Rh, Ir, Os, Ru, [Fe <sub>2</sub> O <sub>3</sub> ], [FeO]
GBW07202	铬铁矿成分分析标准物质	Chromite	200g	Cr <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , S, NiO, CoO, V <sub>2</sub> O <sub>5</sub> , TFe <sub>2</sub> O <sub>5</sub> , Pt, Pd, Rh, Ir, Os, Ru, [Fe <sub>2</sub> O <sub>3</sub> ], [FeO]
GBW07162	多金属贫矿石成分分析标准物质	Poor polymetal	50g	Cu, Pb, Zn, Fe, S, As, Ag, Cd, Ga, Ge, Tl, Se, Mo, Sb, Bi, Hg, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [In], [Te], [W]



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07163	多金属矿石成分分析标准物质	Ploymetal ore rock	50g	Cu, Pb, Zn, Fe, S, As, Ag, Cd, Ga, Ge, In, Mo, W, Bi, Hg, Sn, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, [Ti], [Se], [Te], [Sb]
GBW07249	多金属结核成分分析标准物质	Phlymatallic nodule	60g	Mn(T), Fe(T), Co, Ni, Cu, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Ba, Sr, H <sub>2</sub> O <sup>+</sup> , S, Cl, MnO <sub>2</sub> , As, B, Ce, Cr, Dy, Er, Eu, Ga, Gd, Ho, La, Li, Lu, Mo, Nd, Pb, Pr, Rb, Sb, Sc, Sm, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, [CO <sub>2</sub> ], [Org·C], [L.O.I.], [Nb], [F]
GBW07210	磷矿石成分分析标准物质	Phosphate rocks	100g	P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , MnO, TiO <sub>2</sub> , F, CO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, SrO, I
GBW07211	磷矿石成分分析标准物质	Phosphate rocks	100g	P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , MnO, TiO <sub>2</sub> , F, CO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, SrO, I, TS
GBW07212	磷矿石成分分析标准物质	Phosphate rocks	100g	P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , MnO, TiO <sub>2</sub> , F, CO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, SrO
GBW07214a	石灰石成分分析标准物质	Limestone	50g	CaO, MgO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, P, S, L.O.I., K <sub>2</sub> O, [Na <sub>2</sub> O]
GBW07215a	石灰石成分分析标准物质	Limestone	50g	CaO, MgO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, P, S, L.O.I., K <sub>2</sub> O, Na <sub>2</sub> O
GBW07216a	白云石成分分析标准物质	Dolomite	70g	CaO, MgO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, P, S, L.O.I., Na <sub>2</sub> O., [K <sub>2</sub> O]
GBW07217a	白云石成分分析标准物质	Dolomite	70g	CaO, MgO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, P, S, L.O.I., K <sub>2</sub> O, Na <sub>2</sub> O
GBW07250	萤石成分分析标准物质	Fluorspar	65g	CaF <sub>2</sub> , SiO <sub>2</sub> , P, S, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, [CaCO <sub>3</sub> ]
GBW07251	萤石成分分析标准物质	Fluorspar	65g	CaF <sub>2</sub> , SiO <sub>2</sub> , P, S, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, [CaCO <sub>3</sub> ]
GBW07252	萤石成分分析标准物质	Fluorspar	65g	CaF <sub>2</sub> , SiO <sub>2</sub> , P, S, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, [CaCO <sub>3</sub> ]
GBW07253	萤石成分分析标准物质	Fluorspar	65g	CaF <sub>2</sub> , SiO <sub>2</sub> , P, S, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, [CaCO <sub>3</sub> ]
GBW07261	锰矿石成分分析标准物质	Manganese ore	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, MnO <sub>2</sub> , [Mn(SiO <sub>3</sub> <sup>2-</sup> )]
GBW07262	锰矿石成分分析标准物质	Manganese ore	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, Mn(CO <sub>3</sub> <sup>2-</sup> ), [Mn(SiO <sub>3</sub> <sup>2-</sup> )]
GBW07263	锰矿石成分分析标准物质	Manganese ore	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, MnO <sub>2</sub> , [Mn(SiO <sub>3</sub> <sup>2-</sup> )]

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GBW07264	锰矿石成分分析标准物质	Manganese ore	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, MnO <sub>2</sub> , [Mn(SiO <sub>3</sub> <sup>2-</sup> )]
GBW07265	锰矿石成分分析标准物质	Manganese ore	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, Mn(CO <sub>3</sub> <sup>2-</sup> ), [Mn(SiO <sub>3</sub> <sup>2-</sup> )]
GBW07266	锰矿石成分分析标准物质	Manganese ores	100g	Mn, Fe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, S, P, Cu, Zn, Ni, BaO, Mn(CO <sub>3</sub> <sup>2-</sup> ), [Mn(SiO <sub>3</sub> <sup>2-</sup> )]
GBW07267	硫化物单矿物成分分析标准物质	Sulfide mineral	10g	Ag, Bi, Cd, Cu, Fe, Ga, S, Sb, Se, Te, Zn, Mn, Ni, [As], [Co], [Ge], [Sn], [Pb]
GBW07268	硫化物单矿物成分分析标准物质	Sulfide mineral	10g	Ag, Bi, Cd, Co, Cu, Fe, In, S, Se, Te, Zn, Mn, Ni, Pb, [As], [Ga], [Sb], [Sn]
GBW07269	硫化物单矿物成分分析标准物质	Sulfide mineral	10g	Ag, As, Bi, Cd, Cu, Fe, Ge, In, S, Sb, Sn, Zn, Tl, Pb, [Co], [Ga], [Te]
GBW07270	硫化物单矿物成分分析标准物质	Sulfide mineral	10g	Ag, Bi, Cd, Co, Cu, Fe, Ga, Ge, In, S, Sb, Zn, Mn, Ni, Pb, [As], [Se], [Sn], [Te]
GBW07288	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Au, [Os], [Ir]
GBW07288-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Au, [Os], [Ir]
GBW07289	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Au, [Os], [Ir]
GBW07289-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Au, [Os], [Ir]
GBW07290	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Au, Os, Ru, Ir, Rh
GBW07290-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Au, Os, Ru, Ir, Rh
GBW07291	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Au, Os, Ru, Ir, Rh
GBW07291-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Au, Os, Ru, Ir, Rh
GBW07292	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Os, Ru, Ir, Rh
GBW07292-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Os, Ru, Ir, Rh
GBW07293	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	1000g	Pt, Pd, Os, Ru, Ir, Rh, [Au]
GBW07293-1	铂族元素地球化学成分分析标准物质	Platinum group elements for geochemical analysis	500g	Pt, Pd, Os, Ru, Ir, Rh, [Au]
GBW07294	铂族元素地球化学成分分析标准物质	Platinum Group Elements for geochemical analysis	1000g	Pt, Pd, Os, Ru, Ir, Rh, [Au]
GBW07294-1	铂族元素地球化学成分分析标准物质	Platinum Group Elements for Geochemical Analysis	500g	Pt, Pd, Os, Ru, Ir, Rh, [Au]

## 岩石 /Rock

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)070039a	岩石热解标准物质	Reference material for rock pyrolysis analysis	10g	热解烃 S <sub>2</sub> (PHC S <sub>2</sub> ): (1.44 ± 0.10) × 10 <sup>-3</sup> ; 最高热解温度 (Tmax): (429 ± 2)°C
GBW(E)070066	岩石热解标准物质	Reference material for rock pyrolysis analysis	10g	热解烃 S <sub>2</sub> (PHC S <sub>2</sub> ), 最高热解温度 (Tmax), [残余碳 S <sub>4</sub> (residue carbon S <sub>4</sub> )], [有机二氧化碳 organic CO <sub>2</sub> ]
GBW07102	超基性岩成分分析标准物质	Ultrabasic rocks	150g	Cr <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, P <sub>2</sub> O <sub>5</sub> , MnO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , S, NiO, CoO, V <sub>2</sub> O <sub>5</sub> , Cl, TFe <sub>2</sub> O <sub>3</sub> , Pt, Pd, Rh, Ir, Os, Ru, Ag, As, Au, B, Ba, Cu, F, Ga, Ge, Hg, Li, Pb, Sc, Sr, Zn, Ce, Dy, Eu, Gd, Ho, La, Lu, Nd, Sm, Tb, Tm, Yb, [Er], [Pn], [Y], [Fe <sub>2</sub> O <sub>3</sub> ], [FeO], [Br], [Cd], [Sb]
GBW07103	岩石成分分析标准物质	Rock	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , FeO, [L.O.I.], [Au], [In], [Se], [CO <sub>2</sub> ]
GBW07104	岩石成分分析标准物质	Rock	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Ei, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , FeO, Org · C, L.O.I., [Au], [I], [Se], [W], [H <sub>2</sub> O <sup>+</sup> ]
GBW07105	岩石成分分析标准物质	Rock	70g	Ag, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cu, Dy, Er, Ei, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, FeO, [L.O.I.], [As], [Cs], [In], [Te], [Tl], [Au], [CO <sub>2</sub> ]

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GBW07106	岩石成分分析标准物质	Rock	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Ei, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , Na <sub>2</sub> O, FeO, Org·C, L.O.I., [In], [Au], [I], [CO <sub>2</sub> ]
GBW07107	岩石成分分析标准物质	Rock	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Ei, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , FeO, [CO <sub>2</sub> ], [Org·C], [L.O.I.], [Au], [Cl], [I], [S], [Te]
GBW07108	岩石成分分析标准物质	Rock	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Ei, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, CO <sub>2</sub> , FeO, L.O.I., [Org·C], [Au], [Er], [I], [In], [Te], [Sn], [Na <sub>2</sub> O], [H <sub>2</sub> O <sup>+</sup> ]
GBW07109	岩石成分分析标准物质	Rock	100g	As, B, Ba, Be, Bi, Br, Cd, Ce, Co, Cr, Cs, Cu, Dy, Eri, Eu, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, Cl, [C(T)], [Ag]
GBW07110	岩石成分分析标准物质	Rock	100g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Eri, Eu, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, Cl, [C(T)], [Br], [Te]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07111	岩石成分分析标准物质	Rock	100g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, Cl, [C(T)], [Br], [I]
GBW07112	岩石成分分析标准物质	Rock	100g	Ag, B, Ba, Bi, Cd, Ce, Co, Cr, Cu, Dy, Eri, Eu, Ga, Gd, Ge, Hf, Ho, I, In, La, Li, Lu, Nb, Nd, Ni, Pr, Sc, Se, Sm, Sn, Sr, Tb, Te, Tl, Tm, V, Y, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, Cl, [C(T)], [As], [Be], [Br], [Cs], [Hg], [Pb], [Mo], [Rb], [Sb], [Ta], [Th], [U], [W]
GBW07113	岩石成分分析标准物质	Rock	100g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Eri, Eu, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, [Cl], [C(T)], [Br], [I], [Te]
GBW07114	岩石成分分析标准物质	Rock	100g	Ag, As, B, Ba, Bi, Br, Cd, Ce, Co, Cr, Cs, Cu, Dy, Eri, Eu, Gd, Ge, Ho, I, La, Li, Lu, Nd, Ni, Sc, Se, Sm, Sn, Sr, Tb, Th, U, V, W, Yb, Zn, Zr, SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, CaO, MgO, K <sub>2</sub> O, CO <sub>2</sub> , FeO, P <sub>2</sub> O <sub>5</sub> , F, S, Cl, [C(T)], [Be], [Ga], [Hf], [Hg], [Mo], [Nb], [Rb], [In], [Pb], [Pr], [Sb], [Ta], [Te], [Tl], [Tm], [Na <sub>2</sub> O], [Y], [H <sub>2</sub> O <sup>+</sup> ]
GBW07120	石灰岩成分分析标准物质	Limestone	70g	As, Ba, Be, Bi, Ce, Dy, Er, Eu, F, Gd, Ge, Hf, Hg, La, Li, Lu, Mn, Mo, Nd, P, Pr, Rb, S, Sb, Se, Sm, Sr, Tb, Th, Ti, Tm, U, V, W, Yb, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, CO <sub>2</sub> , L.O.I., [Ag], [B], [Cd], [Cl], [Co], [Cr], [Cs], [Cu], [Ga], [Ho], [In], [Nb], [Ni], [Pb], [Sc], [Sn], [Ta], [Tl], [Y], [Zn], [Zr], [Na <sub>2</sub> O], [H <sub>2</sub> O <sup>+</sup> ], [FeO]

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GBW07121	花岗质片麻岩成分分析标准物质	Granitic gneiss	70g	Ag, As, B, Ba, Be, Bi, Ce, Co, Cr, Cs, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Tb, Th, Ti, Tm, V, W, Y, Yb, Zn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, CO <sub>2</sub> , FeO, L.O.I., [Cd], [Cl], [Cu], [Mo], [S], [Ta], [Ti], [U], [Zr], [H <sub>2</sub> O <sup>+</sup> ]
GBW07122	斜三角岩成分分析标准物质	Amphibolite	70g	As, B, Ba, Be, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pr, Rb, Sc, Se, Sm, Sr, Tb, Te, Ti, Tm, V, W, Y, Yb, Zn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, FeO, L.O.I., [Ag], [Bi], [Cl], [Pb], [S], [Sb], [Sn], [Ta], [Th], [Ti], [U], [Zr], [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ]
GBW07123	辉绿岩成分分析标准物质	Diabase	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sb, Sc, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Yb, Zn, Zr, Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Mn, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , FeO, L.O.I., SO <sub>3</sub> , [Se], [CO <sub>2</sub> ], [Cl], [F], [H <sub>2</sub> O <sup>+</sup> ]
GBW07124	金伯利岩成分分析标准物质	Kimberlite	70g	As, Ba, Be, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mo, Nb, Nd, Ni, Pb, Pr, Rb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tm, U, V, W, Y, Yb, Zn, Zr, Al <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Mn, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , FeO, L.O.I., SO <sub>3</sub> , [CO <sub>2</sub> ], [Cl], [F], [H <sub>2</sub> O <sup>+</sup> ], [Ag], [B], [Bi], [Sb], [Na <sub>2</sub> O]
GBW07125	伟晶岩成分分析标准物质	Pegmatite	70g	As, B, Ba, Be, Bi, Cd, Cr, Cs, Cu, Dy, Er, Ga, Gd, Ge, Li, Lu, Mo, Nb, Nd, Pb, Pr, Rb, Sb, Sn, Sr, Ta, Th, V, W, Y, Yb, Zn, Zr, Al <sub>2</sub> O <sub>3</sub> , MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , L.O.I., SO <sub>3</sub> , [CO <sub>2</sub> ], [F], [H <sub>2</sub> O <sup>+</sup> ], [Ag], [B], [Bi], [Ce], [Co], [Hf], [Hg], [Ho], [La], [Eu], [Ni], [Sc], [Se], [Sm], [Tb], [Tm], [U], [CaO], [Mn], [FeO]
GBW(E)070040	泥岩成分分析标准物质	Mudstone	80g	SiO <sub>2</sub> , TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MnO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, L.O.I., B, Ba, Cd, Co, Cr, Cu, Ga, Li, Ni, Pb, Sr, V, Zn, Zr

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07128	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	Ag, As, Ba, Be, Bi, Cd, Cl, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, L.O.I., [B], [I], [In], [Sn], [Org·C], [Br], [Co], [H <sub>2</sub> O <sup>-</sup> ]
GBW07130	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	As, Ba, Be, Bi, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Sr, Ta, Te, Th, Ti, U, V, W, Y, Yb, Zn, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, L.O.I., [Br], [B], [I], [In], [Sn], [Ni], [Br], [Ag], [Li], [H <sub>2</sub> O <sup>-</sup> ], [Se], [Tl], [Org·C]
GBW07131	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	As, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr, B, I, In, Sn, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, [Org·C], L.O.I., [B], [I], [In], [Sn], [Ni], [Ag], [Li], [H <sub>2</sub> O <sup>-</sup> ]
GBW07133	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	Ag, As, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr, B, I, In, Sn, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, Org·C, L.O.I., [Ge], [B], [I], [In], [Sn], [H <sub>2</sub> O <sup>-</sup> ], [Org·C]



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GBW07134	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	Ag, As, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, L.O.I., [B], [I], [In], [Sn], [H <sub>2</sub> O], [Org · C]
GBW07135	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	Ag, As, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, U, V, W, Y, Yb, Zn, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , FeO, L.O.I., [T], [B], [I], [In], [Sn], [H <sub>2</sub> O <sup>-</sup> ], [Org · C]
GBW07136	碳酸盐岩石成分分析 标准物质	Carbonate rock	50g	Ag, As, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Li, Mn, Mo, Nb, Ni, P, Pb, Sb, Sc, Se, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Yb, Zn, Zr, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Ho, Er, Yb, Lu, Y, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , FeO, L.O.I., [SO <sub>3</sub> ], H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [Dy], [B], [I], [In], [Sn], [H <sub>2</sub> O <sup>-</sup> ], [Org · C], [Tm]
GBW07701	合成硅酸盐光谱分析 标准物质	Synthetic silicate for spectral analysis	70g	As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr, [Ag]
GBW07702	合成硅酸盐光谱分析 标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07703	合成硅酸盐光谱分析 标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07704	合成硅酸盐光谱分析 标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07705	合成硅酸盐光谱分析 标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr



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GBW07706	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07707	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07708	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07709	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, Cd, Yb, Bi, Sb, Sn, Be, Mo, W, Cr, V, Li, B, Ce, Zr, Cu, Pb, Zn, Sr, Ba, Mn, Ti
GBW07710	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, Cd, Bi, Sb, Sn, Be, Mo, W, Cu, Pb, Zn, Sr, Ti
GBW07711	合成硅酸盐光谱分析标准物质	Synthetic silicate for spectral analysis	70g	Ag, Cd, Sb, Sn, Be, Mo, W, Cu, Pb, Zn, Sr
GBW07712	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Yb, Bi, Sb, Sn, Be, Mo, W, Y, La, Nb, Ga, Co, Cr, As, Ni, B, Ce, Li, V, Zr, Cu, Pb, Zn, Sr, Ba, Ti, Mn, [Cd], [Ag]
GBW07713	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07714	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07715	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07716	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07717	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07718	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07719	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr
GBW07720	合成灰岩光谱分析标准物质	Synthetic limestone for spectral analysis	70g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cu, Ga, La, Li, Mn, Mo, Nb, Ni, Pb, Sb, Sn, Sr, Ti, V, W, Y, Yb, Zn, Zr

## 4. 能源 /Energy Resources

煤炭

Coal

燃油

Fuel Oil

## 煤炭 /Coal

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW11101	煤物理性质和化学成份分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11102	煤物理性质和化学成份分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11103	煤物理性质和化学成份分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11104	煤物理性质和化学成份分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11105	煤物理性质和化学成份分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11107	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11108	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11109	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11110	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11111	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11112	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11113	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)
GBW11126	煤物理特性和化学成分分析标准物质	Coal	50g	氮 (N), 灰分 (ash), 挥发分 (volatilmatter), 氢 (H), 全硫 (S), 热值 (calorific value), 碳 (C), 真相对密度 (truerelative density, 20℃)

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW11115	煤中砷和磷成分分析标准物质	Arsenic and phosphorus in coal	50g	As: $(0.0015 \pm 0.0001) \times 10^{-2}$ ; P: $(0.031 \pm 0.002) \times 10^{-2}$
GBW11116	煤中砷和磷成分分析标准物质	Arsenic and phosphorus in coal	50g	As: $(0.0034 \pm 0.0002) \times 10^{-2}$ ; P: $(0.007 \pm 0.001) \times 10^{-2}$
GBW11117	煤中砷和磷成分分析标准物质	Arsenic and phosphorus in coal	50g	As: $(0.0051 \pm 0.0003) \times 10^{-2}$ ; P: $(0.092 \pm 0.005) \times 10^{-2}$
GBW11118	煤中氯成分分析标准物质	Chlorine in coal	50g	$(0.010 \pm 0.002) \times 10^{-6}$
GBW11119	煤中氯成分分析标准物质	Chlorine in coal	50g	$(0.057 \pm 0.006) \times 10^{-6}$
GBW11120	煤中氯成分分析标准物质	Chlorine in coal	50g	$(0.110 \pm 0.006) \times 10^{-6}$
GBW11121	煤中氟成分分析标准物质	Fluorine in coal	50g	$(248 \pm 12) \times 10^{-6}$
GBW11122	煤中氟成分分析标准物质	Fluorine in coal	50g	$(864 \pm 16) \times 10^{-6}$
GBW11123	煤中氟成分分析标准物质	Fluorine in coal	50g	$(1496 \pm 20) \times 10^{-6}$
GBW11125	煤灰熔融性标准物质	Fusibility of coal ash	30g	半球温度 (HT), 变形温度 (DT), 流动温度 (FT), 软化温度 (ST)
GBW11127	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW11128	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW11129	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW11130	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW11131	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW11132	煤灰成分分析标准物质	Coal ash	30g	Al <sub>2</sub> O <sub>3</sub> , CaO, Fe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, MgO, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , SiO <sub>2</sub> , SO <sub>3</sub> , TiO <sub>2</sub>
GBW(E)110011	焦碳成分分析标准物质	Coke	100g	S: $(0.60 \pm 0.02) \times 10^{-2}$ ; ash: $(12.88 \pm 0.06) \times 10^{-2}$ ; volatile content: $(1.35 \pm 0.06) \times 10^{-2}$
GBW(E)110012	焦碳成分分析标准物质	Coke	100g	S: $(0.78 \pm 0.01) \times 10^{-2}$ ; ash: $(13.70 \pm 0.01) \times 10^{-2}$ ; volatile content: $(1.56 \pm 0.03) \times 10^{-2}$
GBW(E)110013	焦碳成分分析标准物质	Coke	100g	S: $(0.87 \pm 0.02) \times 10^{-2}$ ; ash: $(15.99 \pm 0.05) \times 10^{-2}$ ; volatile content: $(1.44 \pm 0.07) \times 10^{-2}$
GBW(E)110014	焦碳成分分析标准物质	Coke	100g	S: $(1.05 \pm 0.02) \times 10^{-2}$ ; ash: $(15.06 \pm 0.11) \times 10^{-2}$ ; volatile content: $(2.10 \pm 0.07) \times 10^{-2}$
GBW(E)110015	焦碳成分分析标准物质	Coke	100g	S: $(1.31 \pm 0.01) \times 10^{-2}$ ; ash: $(16.55 \pm 0.10) \times 10^{-2}$ ; volatile content: $(2.52 \pm 0.06) \times 10^{-2}$
GBW(E)110016	焦碳成分分析标准物质	Coke	100g	S: $(2.15 \pm 0.02) \times 10^{-2}$ ; ash: $(21.53 \pm 0.13) \times 10^{-2}$ ; volatile content: $(4.23 \pm 0.08) \times 10^{-2}$

## 燃油 / Fuel Oil

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW11203	柴油中硫标准物质	Sulphur in diesel oil	15mL	0.0517%, U=2%
GBW(E)120033	柴油十六烷值标准物质	Cetane number of diesel oil	200mL	24.2(CN), U=2.5(CN)
GBW(E)120034	柴油十六烷值标准物质	Cetane number of diesel oil	200mL	42.4(CN), U=2.5(CN)
GBW(E)120035	柴油十六烷值标准物质	Cetane number of diesel oil	200mL	51.9(CN), U=2.5(CN)
GBW(E)120036	柴油十六烷值标准物质	Cetane number of diesel oil	200mL	72.4(CN), U=2.5(CN)
GBW(E)120015	车用无铅汽油辛烷值标准物质	Octane index of gasoline(no lead)	200mL	90.3(ROn), U=1.0(ROn)
GBW(E)120016	车用无铅汽油辛烷值标准物质	Octane index of gasoline(no lead)	200mL	93.3(ROn), U=1.0(ROn)
GBW(E)120032	车用汽油辛烷值标准物质	Octane index of gasoline	200mL	94.8(ROn), U=1.0(ROn)
GBW(E)110047	闭口闪点标准物质	Flash point-closed cup	150mL	(70.8 ± 4.0)°C (每批值略有不同)
GBW(E)110048	闭口闪点标准物质	Flash point-closed cup	150mL	(80.8 ± 2.4)°C (每批值略有不同)
GBW(E)110049	闭口闪点标准物质	Flash point-closed cup	150mL	(110.5 ± 5.4)°C (每批值略有不同)
GBW(E)110050	闭口闪点标准物质	Flash point-closed cup	150mL	(142.2 ± 4.4)°C (每批值略有不同)
GBW(E)110051	闭口闪点标准物质	Flash point-closed cup	150mL	(161.4 ± 4.2)°C (每批值略有不同)
GBW(E)110052	闭口闪点标准物质	Flash point-closed cup	150mL	(158.6 ± 4.6)°C (每批值略有不同)
GBW(E)110053	开口闪点标准物质	Flash point-open cup	150mL	(116.8 ± 6.6)°C (每批值略有不同)
GBW(E)110054	开口闪点标准物质	Flash point-open cup	150mL	(139.3 ± 4.4)°C (每批值略有不同)
GBW(E)110055	开口闪点标准物质	Flash point-open cup	150mL	(165.8 ± 5.2)°C (每批值略有不同)
GBW(E)110056	开口闪点标准物质	Flash point-open cup	150mL	(228.2 ± 8.0)°C (每批值略有不同)

## 5. 建材 /Building Materials

粘土

Clay

石灰岩

Limestone

石膏

Gypsum

硅质砂岩

Siliceous Sandstone

石墨矿

Graphite Ore

水泥

Cement

其它

Others

## 粘土 /Clay

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03101	粘土成份分析标准物质	Clay	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ], [FeO]
GBW03101a	粘土成分分析标准物质	Clay	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ], [FeO]
GBW03102a	粘土成分分析标准物质	Clay	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ], [FeO]
GBW03103	粘土成分分析标准物质	Clay	60g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ], [FeO]
GBW03115	软质粘土成分分析标准物质	Plastic clay	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub>
GBW03105a	石灰岩成分分析标准物质	Limestone	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, fSiO <sub>2</sub> , [CO <sub>2</sub> ]

## 石灰岩 /Limestone

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03106	石灰岩成份分析标准物质	Limestone	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, fSiO <sub>2</sub> , [CO <sub>2</sub> ]
GBW03106a	石灰岩成分分析标准物质	Limestone	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, fSiO <sub>2</sub> , [CO <sub>2</sub> ]
GBW03107	石灰岩成分分析标准物质	Limestone	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, fSiO <sub>2</sub> , [CO <sub>2</sub> ]
GBW03109	石膏成份分析标准物质	Gypsum	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , Cl, L.O.I., [CO <sub>2</sub> ], [SrO]

## 石膏 /Gypsum

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03109a	石膏成分分析标准物质	Gypsum	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , Cl, L.O.I., [CO <sub>2</sub> ], [SrO]
GBW03110	石膏成分分析标准物质	Gypsum	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , Cl, L.O.I., [CO <sub>2</sub> ], [SrO]
GBW03111	石膏成份分析标准物质	Gypsum	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , Cl, L.O.I., [CO <sub>2</sub> ], [SrO]
GBW03111a	石膏成分分析标准物质	Gypsum	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , H <sub>2</sub> O <sup>+</sup> , Cl, L.O.I., [CO <sub>2</sub> ], [SrO]
GBW03112	硅质砂岩成分分析标准物质	Siliceous sandstone	60g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, Cr <sub>2</sub> O <sub>3</sub> , L.O.I., [P <sub>2</sub> O <sub>5</sub> ], [MnO]



## 硅质砂岩 /Siliceous Sandstone

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03113	硅质砂岩成分分析标准物质	Siliceous sandstone	60g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, Cr <sub>2</sub> O <sub>3</sub> , L.O.I., [P <sub>2</sub> O <sub>5</sub> ], [MnO]
GBW03114	硅质砂岩成分分析标准物质	Siliceous sandstone	60g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, TiO <sub>2</sub> , K <sub>2</sub> O, Na <sub>2</sub> O, Cr <sub>2</sub> O <sub>3</sub> , L.O.I., [P <sub>2</sub> O <sub>5</sub> ], [MnO]
GBW03118	石墨矿成分分析标准物质	Graphite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , S, H <sub>2</sub> O+, fixed carbon

## 石墨矿 /Graphite Ore

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03119	石墨矿成分分析标准物质	Graphite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , S, H <sub>2</sub> O+, fixed carbon
GBW03120	石墨矿成分分析标准物质	Graphite ore	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , S, H <sub>2</sub> O+, fixed carbon, ash, volatile matter
GBW03201a	硅酸盐水泥成分分析标准物质	Portland cement	25g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I., insoluble matter

## 水泥 /Cement

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03202	水泥黑生料成分分析标准物质	Cement black raw meal	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I.
GBW03203	水泥生料成分分析标准物质	Cement raw meal	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I.
GBW03204	水泥熟料成分分析标准物质	Cement clinker	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I., insoluble matter
GBW03205	普通硅酸盐水泥成分分析标准物质	Ordinary portland cement	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I.
GBW03206	火山灰质硅酸盐水泥成分分析标准物质	Portland-pozzolana cement	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I.
GBW03207	矿渣硅酸盐水泥成分分析标准物质	Portland blastfurnace-slag cement	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I.
GBW03208	粉煤灰硅酸盐水泥成分分析标准物质	Portland fly-ash cement	20g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , L.O.I., insoluble matter



## 其它 /Others

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW03121	高岭土成分分析标准物质	Kaolin	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [FeO]
GBW03122	高岭土成分分析标准物质	Kaolin	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [FeO]
GBW03117	钠钙硅玻璃成分分析标准物质	Soda-lime-silica glass	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, L.O.I., SO <sub>3</sub>
GBW03132	硼硅酸盐玻璃成分分析标准物质	Borosilicate glass	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , B <sub>2</sub> O <sub>5</sub> , L.O.I., F
GBW03124	霞石正长岩成分分析标准物质	Nepheline syenite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , FeO, TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., H <sub>2</sub> O <sup>+</sup> , [S]
GBW03125	霞石正长岩成分分析标准物质	Nepheline syenite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , H <sub>2</sub> O <sup>+</sup> , FeO, [S]
GBW03126	叶腊石成分分析标准物质	Pyrophyllite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., H <sub>2</sub> O <sup>+</sup>
GBW03127	叶腊石成分分析标准物质	Pyrophyllite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., H <sub>2</sub> O <sup>+</sup>
GBW03128	水镁石成分分析标准物质	Brucite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , [H <sub>2</sub> O <sup>+</sup> ]
GBW03129	水镁石成分分析标准物质	Brucite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , [H <sub>2</sub> O <sup>+</sup> ]
GBW03116	钾长石成分分析标准物质	Potassium feldspar	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , L.O.I.
GBW03134	钠长石成分分析标准物质	Albite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , L.O.I.
GBW03130	滑石成分分析标准物质	Steatite	30g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , L.O.I., H <sub>2</sub> O <sub>+</sub> , [A.U.M]
GBW03131	滑石成分分析标准物质	Steatite	30g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , MnO, CO <sub>2</sub> , L.O.I., H <sub>2</sub> O <sub>+</sub> , [A.U.M]
GBW03104	页岩成分分析标准物质	Shale	60g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., Cl, CO <sub>2</sub> , [H <sub>2</sub> O <sup>+</sup> ], [FeO]
GBW03123	硅灰石成分分析标准物质	Wollastonite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, TiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , MnO, L.O.I., FeO, [S]
GBW03133	矾土成分分析标准物质	Bauxite	50g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , CaO, MgO, K <sub>2</sub> O, Na <sub>2</sub> O, L.O.I

## 6. 农业及环境 /Agriculture and Environment

河流、海洋沉积物

Stream Sediment

土壤

Soil

煤飞灰

Coal Fly Ash

电子电气产品限令

Restricted Hazardous Substances

## 河流、海洋沉积物 /Stream Sediment

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07301a	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, L.O.I., [Br], [FeO], [In], [S], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [Org. C], [TC]
★ GBW07302	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, Ba, Be, Bi, Br, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I,La, Li, Mn, Mo, N,Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, FeO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [B], [Cl], [In], [Lu], [CO <sub>2</sub> ], [Org. C], [Sn], [S], [Sr], [TC]
★ GBW07302a	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hg, Ho, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, Pb, Pr, Rb, , S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, [Br], [Hf], [P], [Te], [FeO], [In], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [TC]
★ GBW07303a	水系沉积物成分分析 标准物质	Stream sediment	70g	"TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [Cl], [Org.C], [S], [Te], [FeO],[TC]"
GBW07304a	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hg, Hf, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, TC, [Te], [FeO], [H <sub>2</sub> O <sub>+</sub> ], [CO <sub>2</sub> ]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07305	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , [H <sub>2</sub> O <sup>+</sup> ], [Org.C], [FeO], [TC]
GBW07306	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , [Org.C], [Te], [TC]
GBW07307a	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [Org.C], [Br], [Se], [Te], [FeO], [TC]
GBW07308a	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, I, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [Org.C], [S], [In], [Cl], [N], [Te], [TC]
GBW07309	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ag, As, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , CO <sub>2</sub> , Org.C, L.O.I., B, [Au], [Br], [Cl], [Te], [I]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07310	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Tb, Te, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , Org.C, L.O.I., [Br], [Cl], [Ta], [FeO], [H <sub>2</sub> O <sup>+</sup> ]
GBW07311	水系沉积物成分分析 标准物质	Stream Sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [CO <sub>2</sub> ], [Org.C], [L.O.I.], [Au], [Br], [Te], [FeO]
GBW07312	水系沉积物成分分析 标准物质	Stream Sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , L.O.I., B, [Au], [Br], [Cl], [CO <sub>2</sub> ], [Org.C]
GBW07317	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Ce, Co, Br, I, N, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sr, Tb, Th, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, L.O.I., Org.C, [F], [Cd], [Cl], [Cr], [In], [S], [Ni], [Sn], [Ta], [Tl], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [FeO]
GBW07318	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Ce, Co, Cr, F, Br, I, N, Cs, Cu, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Sm, Sr, Ta, Tb, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, L.O.I., Org.C, [Cd], [Cl], [In], [Se], [Sn], [S], [Tl], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO ]

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★ GBW07358	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , Org.C, [CO <sub>2</sub> ], [N], [Te], [FeO], [TC]
GBW07359	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, H <sub>2</sub> O <sup>+</sup> , [Hg], [CO <sub>2</sub> ], [Org.C], [N], [Te], [FeO], [TC]
GBW07360	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [H <sub>2</sub> O <sup>+</sup> ],[CO <sub>2</sub> ],[Org.C],[Te],[FeO]
★ GBW07361	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.CTC, [H <sub>2</sub> O <sup>+</sup> ],[CO <sub>2</sub> ], [TC], [Te], [FeO], [Sn], [Cl], [In]
★ GBW07362	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, S, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, H <sub>2</sub> O <sup>+</sup> ,CO <sub>2</sub> , Org.C, [Te], [FeO], [Hg]

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★ GBW07363	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , Org.C, TC, [H <sub>2</sub> O <sup>+</sup> ],[Te], [FeO], [Hf], [S]
★ GBW07364	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , Org.C, [TC], [H <sub>2</sub> O <sup>+</sup> ],[Te], [FeO], [Br], [N]
★ GBW07365	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , Org.C, TC, [H <sub>2</sub> O <sup>+</sup> ],[Te], [FeO], [S]
★ GBW07366	水系沉积物成分分析 标准物质	Stream sediment	70g	TFe <sub>2</sub> O <sub>3</sub> , Ti, Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, N, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, TC, [CO <sub>2</sub> ], [H <sub>2</sub> O <sup>+</sup> ],[Te], [FeO]
GBW07423	湖积物成分分析 标准物质	Lake Deposit	70g	Ag, Al <sub>2</sub> O <sub>3</sub> , As, B, Ba, Be, Bi, CaO, Ce, Co, CO <sub>2</sub> , Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, K <sub>2</sub> O, La, Li, Lu, MgO, Mn, Mo, Na <sub>2</sub> O, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, SiO <sub>2</sub> , Sm, Sn, Sr, Ta, Tb, TFe <sub>2</sub> O <sub>3</sub> , Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr, [Cd], [Cl], [Te], [In], [Tl], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [L.O.I.]
GBW08301	河流沉积物成分分析 标准物质	River sediment	50g	As, Ba, Cd, Co, Cr, Cu, Fe, Hg, Mn, Pb, Se, [V], [Zn], [Be], [Ni]



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07321	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]
GBW07322	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]
GBW07323	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]
GBW07324	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]
GBW07325	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07326	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, [S], [Pd], [In], [I], [Pt]
GBW07327	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]
GBW07328	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]
GBW07329	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]
GBW07330	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]

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GBW07331	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]
GBW07332	西藏地区沉积物成分分析标准物质	Stream sediment in tibet area	60g	Ag, As, B, Ba, Be, Bi, Br, Cd, Cl, Co, Cr, Cs, Cu, F, Ga, Ge, Hf, Hg, Sr, Ta, Te, TFe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Hf, Hg, Li, Mn, Mo, MnO, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , CaO, K <sub>2</sub> O, Al <sub>2</sub> O <sub>3</sub> , Ce, Nd, Lu, Zn, Gd, Pr, La, Ho, Y, Zr, Sm, Er, MgO, Eu, Tb, Yb, Au, W, Dy, V, Tm, MgO, Sb, Se, Sc, Rb, P, Ti, Pb, Sn, Nb, Ni, Tl, U, Th, Na <sub>2</sub> O, MnO, [S], [Pd], [In], [I], [Pt]
GBW08304	河流沉积物环境放射性标准物质	CRM for environmental radioactivity of river sediment	100g	<sup>137</sup> Cs, <sup>226</sup> Ra, <sup>232</sup> Th, <sup>235</sup> U, <sup>238</sup> U, <sup>239</sup> Pu+ <sup>240</sup> Pu, <sup>40</sup> K, <sup>60</sup> Co, [ <sup>90</sup> Sr]
GBW08304a	河流沉积物环境放射性标准物质	CRM for environmental radioactivity of river sediment	100g	<sup>137</sup> Cs, <sup>226</sup> Ra, <sup>232</sup> Th, <sup>235</sup> U, <sup>238</sup> U, <sup>239</sup> Pu+ <sup>240</sup> Pu, <sup>40</sup> K, <sup>60</sup> Co, [ <sup>90</sup> Sr]

## 土壤 /Soil

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07409	土壤成分分析标准物质	Soil	100g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, [Au], [Br], [Te], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [L.O.I].
GBW07409-1	土壤成分分析标准物质	Soil	50g	Ag, As, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tm, U, V, W, Y, Yb, Zn, Zr, N, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, [Au], [B], [Te], [TI], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [L.O.I].
GBW07410	土壤成分分析标准物质	Soil	100g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Org.C, [Au], [Br], [Cl], [In], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [L.O.I].

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GBW07410-1	土壤成分分析标准物质	Soil	50g	Ag, As, B, Ba, Be, Bi, Cd, Ce, Co, Cr, Cs, Cu, Eu, F, Ga, Gd, Hg, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Rb, Sb, Sc, Se, Sm, Sn, Sr, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Fe <sub>2</sub> O <sub>3</sub> , [Dy], [Ge], [Br], [Cl], [Er], [Ho], [I], [In], [Pr], [S], [Te], [N]
GBW07424	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Corg., [Re], [Sb(T)], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ]
GBW07425	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Corg., [Sb(T)], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ]
GBW07426	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , [Corg.], [Cl], [Sb(T)], [H <sub>2</sub> O <sup>+</sup> ]
GBW07427	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, CO <sub>2</sub> , Corg., [Re], [S], [Sb(T)], [H <sub>2</sub> O <sup>+</sup> ]
GBW07428	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Corg., [Sb(T)], [FeO], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ]
GBW07429	土壤成份分析标准物质	Soil	70g	Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, MnO, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, S, Sb(DA), Sb(T), Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, N, Ti, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Corg., [Re], [Sb(T)], [H <sub>2</sub> O <sup>+</sup> ], [Te], [CO <sub>2</sub> ]

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GBW07412a	土壤有效态成分分析标准物质 ( 辽宁棕壤 )	Available nutrients in soil	500g	pH, 有机质 ( Organic matter ) , 全氮 ( Total N ) , 水解性氮 ( Hydrolyzable N ) , 有效磷 ( Available P ) , 速效钾 ( Rapid available K ) , 缓效钾 ( Slow available K ) , 有效硫 ( Available S ) , 有效硅 ( Available Si ) , 阳离子交换量 ( Cation exchange capacity ) , 交换性钙 ( Exchangeable Ca ) , 交换性镁 ( Exchangeable Mg ) , 交换性钠 ( Exchangeable Na ) , 交换性钾 ( Exchangeable K ) , 交换性锰 ( Exchangeable Mn ) , 水溶性盐 ( Water-soluble salts ) ( Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ) , 有效铜 ( Available Cu ) , 有效锌 ( Available Zn ) , 有效铁 ( Available Fe ) , 有效锰 ( Available Mn ) , 有效镉 ( Available Cd ) , 有效铅 ( Available Pb ) , 有效镍 ( Available Ni ) , 有效铬 ( Available Cr ) , 有效砷 ( Available As ) , 有效硒 ( Available Se ) , 有效钴 ( Available Co ) , 有效铅 ( Available Pb ) , 有效钼 ( Available Mo ) , 有效硼 ( Available B ) , 水溶态硒 ( Water-soluble Se ) , 水溶态氟 ( Water-soluble F )
GBW07413a	土壤有效态成分分析标准物质 ( 河南黄潮土 )	Available nutrients in soil	500g	pH, 有机质 ( Organic matter ) , 全氮 ( Total N ) , 水解性氮 ( Hydrolyzable N ) , 有效磷 ( Available P ) , 速效钾 ( Rapid available K ) , 缓效钾 ( Slow available K ) , 有效硫 ( Available S ) , 有效硅 ( Available Si ) , 阳离子交换量 ( Cation exchange capacity ) , 交换性钙 ( Exchangeable Ca ) , 交换性镁 ( Exchangeable Mg ) , 交换性钠 ( Exchangeable Na ) , 交换性钾 ( Exchangeable K ) , 交换性锰 ( Exchangeable Mn ) , 水溶性盐 ( Water-soluble salts ) ( Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ) , 有效铜 ( Available Cu ) , 有效锌 ( Available Zn ) , 有效铁 ( Available Fe ) , 有效锰 ( Available Mn ) , 有效镉 ( Available Cd ) , 有效铅 ( Available Pb ) , 有效镍 ( Available Ni ) , 有效铬 ( Available Cr ) , 有效砷 ( Available As ) , 有效硒 ( Available Se ) , 有效钴 ( Available Co ) , 有效铅 ( Available Pb ) , 有效钼 ( Available Mo ) , 有效硼 ( Available B ) , 水溶态硒 ( Water-soluble Se ) , 水溶态氟 ( Water-soluble F )
GBW07414a	土壤有效态成分分析标准物质 ( 四川紫色土 )	Available nutrients in soil	500g	pH, 有机质 ( Organic matter ) , 全氮 ( Total N ) , 水解性氮 ( Hydrolyzable N ) , 有效磷 ( Available P ) , 速效钾 ( Rapid available K ) , 缓效钾 ( Slow available K ) , 有效硫 ( Available S ) , 有效硅 ( Available Si ) , 阳离子交换量 ( Cation exchange capacity ) , 交换性钙 ( Exchangeable Ca ) , 交换性镁 ( Exchangeable Mg ) , 交换性钠 ( Exchangeable Na ) , 交换性钾 ( Exchangeable K ) , 交换性锰 ( Exchangeable Mn ) , 水溶性盐 ( Water-soluble salts ) ( Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ) , 有效铜 ( Available Cu ) , 有效锌 ( Available Zn ) , 有效铁 ( Available Fe ) , 有效锰 ( Available Mn ) , 有效镉 ( Available Cd ) , 有效铅 ( Available Pb ) , 有效镍 ( Available Ni ) , 有效铬 ( Available Cr ) , 有效砷 ( Available As ) , 有效硒 ( Available Se ) , 有效钴 ( Available Co ) , 有效铅 ( Available Pb ) , 有效钼 ( Available Mo ) , 有效硼 ( Available B ) , 水溶态硒 ( Water-soluble Se ) , 水溶态氟 ( Water-soluble F )

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GBW07415a	土壤有效态成分分析标准物质 (湖北水稻土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)
GBW07416a	土壤有效态成分分析标准物质 (江西红壤)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)
GBW07417a	土壤有效态成分分析标准物质 (广东水稻土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)



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GBW07458	土壤有效态成分分析标准物质 (黑龙江黑土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, $Cl^-$ , $SO_4^{2-}$ , $Ca^{2+}$ , $Mg^{2+}$ , $K^+$ , $Na^+$ ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效铅 (Available Pb), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)
GBW07459	土壤有效态成分分析标准物质 (新疆灰钙土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, $Cl^-$ , $SO_4^{2-}$ , $Ca^{2+}$ , $Mg^{2+}$ , $K^+$ , $Na^+$ ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效铅 (Available Pb), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)
GBW07460	土壤有效态成分分析标准物质 (陕西黄绵土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, $Cl^-$ , $SO_4^{2-}$ , $Ca^{2+}$ , $Mg^{2+}$ , $K^+$ , $Na^+$ ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效铅 (Available Pb), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)



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GBW07461	土壤有效态成分分析标准物质 (安徽潮土)	Available nutrients in soil	500g	pH, 有机质 (Organic matter), 全氮 (Total N), 水解性氮 (Hydrolyzable N), 有效磷 (Available P), 速效钾 (Rapid available K), 缓效钾 (Slow available K), 有效硫 (Available S), 有效硅 (Available Si), 阳离子交换量 (Cation exchange capacity), 交换性钙 (Exchangeable Ca), 交换性镁 (Exchangeable Mg), 交换性钠 (Exchangeable Na), 交换性钾 (Exchangeable K), 交换性锰 (Exchangeable Mn), 水溶性盐 (Water-soluble salts) (Total, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , Ca <sup>2+</sup> , Mg <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> ), 有效铜 (Available Cu), 有效锌 (Available Zn), 有效铁 (Available Fe), 有效锰 (Available Mn), 有效镉 (Available Cd), 有效铅 (Available Pb), 有效镍 (Available Ni), 有效铬 (Available Cr), 有效砷 (Available As), 有效硒 (Available Se), 有效钴 (Available Co), 有效钼 (Available Mo), 有效硼 (Available B), 水溶态硒 (Water-soluble Se), 水溶态氟 (Water-soluble F)
GBW07436	沉积物顺序提取微量元素标准物质 (BCR 法与 Tessier 修正法)	Lake sediment for extractable trace elements (by BCR and Tessier methods)	30g	As, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Zn, Sb, [Se], [Hg]
GBW07437	土壤顺序提取微量元素标准物质 (BCR 法与 Tessier 修正法)	Soil for Extractable Trace Elements (by BCR and Tessier methods)	30g	As, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Zn, Sb, [Se], [Hg]
GBW07438	土壤顺序提取微量元素标准物质 (BCR 法与 Tessier 修正法)	Soil for Extractable Trace Elements (by BCR and Tessier methods)	30g	As, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Zn, Sb, [Se], [Hg]
★ GBW07446	土壤成分分析标准物质 (内蒙古沙化土)	Soil (sandy soil from Neimenggu)		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07447	土壤成分分析标准物质 (内蒙古盐碱土)	Soil (saline-alkali soil from Meimenggu)		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07448	土壤成分分析标准物质 (青海棕漠土)	Soil (brown desert soil from Qinghai)		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW07449	土壤成分分析标准物质 (新疆盐碱土)	Soil ( saline-alkali soil from Xinjiang )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07450	土壤成分分析标准物质 (新疆灰钙土)	Soil ( sierozem from Xinjiang )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07451	土壤成分分析标准物质 (黄海滩涂沉积物)	Soil ( tidal flat sediment near the Yellow Sea )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07452	土壤成分分析标准物质 (象山东海滩涂沉积物)	Soil ( tidal flat sediment near Xiangshan, the the East China Sea )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07453	土壤成分分析标准物质 (南海滩涂沉积物)	Soil ( tidal flat sediment near theSouth China Sea )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07454	土壤成分分析标准物质 (洛川黄土)	Soil ( loess soil from Luochuan )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
★ GBW07455	土壤成分分析标准物质 (淮河沉积物)	Soil ( sediment from the Huaihe River )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW07456	土壤成分分析标准物质 (长江沉积物)	Soil ( sediment from the the Yangtse River )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
GBW07457	土壤成分分析标准物质 (湘江沉积物)	Soil ( sediment from the the Xiangjiang River )		Ag, As, B, Ba, Be, Bi, Br, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, F, Ga, Gd, Ge, Hf, Hg, Ho, I, In, La, Li, Lu, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , FeO, MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TC, [S], [Te], [H <sub>2</sub> O <sup>+</sup> ], [CO <sub>2</sub> ], [COrg.]
GBW08302	西藏土壤成分分析标准物质	Tibet Soil	15g	Al, As, Be, Ca, Cd, Ce, Co, Cr, Cu, Eu, Fe, K, La, Mg, Mn, P, Pb, Rb, Sc, Si, Se, Sm, Sr, Th, Ti, U, V, Yb, Zn, N, Na, Nd, Ni, [Ba], [Cs], [Dy], [Hf], [Hg], [Lu], [Sb], [Ta], [Tb]
GBW(E)070041	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., B, Cu, Mo, Zn,
GBW(E)070042	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., B., Cu, Zn, [S], [Mo]
GBW(E)070043	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., B, Cu, Mo, Zn, [S]
GBW(E)070044	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., B, Cu, Mo, Zn, [S]
GBW(E)070045	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , MgO, K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., B, Cu, Mo, Zn, [S], [CaO], [Na <sub>2</sub> O]
GBW(E)070046	农业土壤成分分析标准物质	Agricultural soil	70g	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , TFe <sub>2</sub> O <sub>3</sub> , K <sub>2</sub> O, TiO <sub>2</sub> , MnO, P <sub>2</sub> O <sub>5</sub> , L.O.I., Cu, Mo, Zn, [MgO], [CaO], [Na <sub>2</sub> O], [S], [B]
BW3714	土壤中7种PCBs(低含量) 标准物质	7 PCBs in low contaminated Soil	10g	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (1-10) μg/kg, U ≤ 11%
BW3715	土壤中7种PCBs(高含量) 标准物质	7 PCBs in high contaminated Soil	10g	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (5-1000) μg/kg, U<21%

## 模拟天然水 /Simulated Natural Water

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080390	模拟天然水砷溶液成分分析标准物质	As in simulated natural water	20mL	0.50mg/L, U=4%
GBW(E)080391	模拟天然水砷溶液成分分析标准物质	As in simulated natural water	20mL	4.0mg/L, U=2%
GBW(E)080392	模拟天然水汞溶液成分分析标准物质	Hg in simulated natural water	20mL	0.001g/L, U=5%
GBW(E)080393	模拟天然水汞溶液成分分析标准物质	Hg in simulated natural water	20mL	0.01g/L, U=4%
GBW(E)080394	模拟天然水硒溶液成分分析标准物质	Se in simulated natural water	20mL	0.01g/L, U=4%
GBW(E)080395	模拟天然水硒溶液成分分析标准物质	Se in simulated natural water	20mL	1.00mg/L, U=3%
GBW(E)080396	模拟天然水铜溶液成分分析标准物质	Cu in simulated natural water	20mL	1.00mg/L, U=3%
GBW(E)080397	模拟天然水铜溶液成分分析标准物质	Cu in simulated natural water	20mL	1.00mg/L, U=3%
GBW(E)080398	模拟天然水铅溶液成分分析标准物质	Pb in simulated natural water	20mL	0.50mg/L, U=4%
GBW(E)080399	模拟天然水铅溶液成分分析标准物质	Pb in simulated natural water	20mL	5.0mg/L, U=2%
GBW(E)080400	模拟天然水锌溶液成分分析标准物质	Zn in simulated natural water	20mL	5.0mg/L, U=2%
GBW(E)080401	模拟天然水镉溶液成分分析标准物质	Cd in simulated natural water	20mL	0.01g/L, U=4%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080402	模拟天然水镉溶液成分分析标准物质	Cd in simulated natural water	20mL	1.00mg/L, U=2%
GBW(E)080403	模拟天然水铬溶液成分分析标准物质	Cr in simulated natural water	20mL	0.50mg/L, U=4%
GBW(E)080404	模拟天然水铬溶液成分分析标准物质	Cr in simulated natural water	20mL	5.0mg/L, U=2%
GBW(E)080405	模拟天然水镍溶液成分分析标准物质	Ni in simulated natural water	20mL	5.0mg/L, U=2%
GBW(E)080406	模拟天然水锰溶液成分分析标准物质	Mn in simulated natural water	20mL	5.0mg/L, U=2%
GBW(E)080407	模拟天然水铁溶液成分分析标准物质	Fe in simulated natural water	20mL	10.0mg/L, U=2%
GBW(E)080408	模拟天然水钠溶液成分分析标准物质	Na in simulated natural water	20mL	50mg/L, U=2%
GBW(E)080409	模拟天然水钾溶液成分分析标准物质	K in simulated natural water	20mL	50mg/L, U=2%
GBW(E)080410	模拟天然水镁溶液成分分析标准物质	Mg in simulated natural water	20mL	40.0mg/L, U=2%
GBW(E)080411	模拟天然水钙溶液成分分析标准物质	Ca in simulated natural water	20mL	200mg/L, U=1%
GBW(E)080415	模拟天然水磷溶液成分分析标准物质	P in simulated natural water	20mL	2.00mg/L, U=2.5%
GBW(E)080414	模拟天然水 F <sup>-</sup> 溶液成分分析标准物质	F <sup>-</sup> in simulated natural water	20mL	10.0mg/L, U=3%
GBW(E)080413	模拟天然水 Cl <sup>-</sup> 溶液成分分析标准物质	Cl <sup>-</sup> in simulated natural water	20mL	200mg/L, U=1%
GBW(E)080412	模拟天然水 SO <sub>4</sub> <sup>2-</sup> 溶液成分分析标准物质	SO <sub>4</sub> <sup>2-</sup> in simulated natural water	20mL	500mg/L, U=2%
GBW(E)080416	模拟天然水 NO <sup>3-</sup> -N 溶液成分分析标准物质	NO <sup>3-</sup> -N in simulated natural water	20mL	5.0mg/L, U=4%
GBW(E)080417	模拟天然水 NO <sup>3-</sup> -N 溶液成分分析标准物质	NO <sup>3-</sup> -N in simulated natural water	20mL	20.0mg/L, U=3%
GBW(E)080418	模拟天然水 NO <sup>2-</sup> -N 溶液成分分析标准物质	NO <sup>2-</sup> -N in simulated natural water	20mL	1.50mg/L, U=4%
GBW(E)080419	模拟天然水 NO <sup>2-</sup> -N 溶液成分分析标准物质	NO <sup>2-</sup> -N in simulated natural water	20mL	10.0mg/L, U=3%
GBW(E)080420	模拟天然水 NH <sub>3</sub> -N 溶液成分分析标准物质	NH <sub>3</sub> -N in simulated natural water	20mL	2.00mg/L, U=4%
GBW(E)080421	模拟天然水 NH <sub>3</sub> -N 溶液成分分析标准物质	NH <sub>3</sub> -N in simulated natural water	20mL	20.0mg/L, U=3%
GBW(E)080424	模拟天然水 CODCr 溶液成分分析标准物质	CODCr in simulated natural water	20mL	200mg/L, U=5%
GBW(E)080425	模拟天然水 CODCr 溶液成分分析标准物质	CODCr in simulated natural water	20mL	1007mg/L, U=3%
GBW(E)080426	模拟天然水 CODCr 溶液成分分析标准物质	CODCr in simulated natural water	20mL	2010mg/L, U=3%
GBW(E)080427	模拟天然水 CODMn 溶液成分分析标准物质	CODMn in simulated natural water	20mL	31mg/L, U=5%
GBW(E)080428	模拟天然水 CODMn 溶液成分分析标准物质	CODMn in simulated natural water	20mL	80.5mg/L, U=4%
GBW(E)080422	模拟天然水苯酚溶液成分分析标准物质	Phenol in simulated natural water	20mL	0.50mg/L, U=4%
GBW(E)080423	模拟天然水苯酚溶液成分分析标准物质	Phenol in simulated natural water	20mL	2.25mg/L, U=3%
GBW(E)080429	模拟天然水硬度溶液成分分析标准物质	Water hardness of simulated natural water	20mL	Calculated by CaCO <sub>3</sub> : 300mg/L, U=1.5%
GBW(E)080430	模拟天然水硬度溶液成分分析标准物质	Water hardness of simulated natural water	20mL	Calculated by CaCO <sub>3</sub> : 1000mg/L, U=1%

## 煤飞灰 /Coal Fly Ash

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08401	煤飞灰成分分析标准物质	Coal fly ash	30g	As, Be, Cd, Co, Cr, Cu, Fe, Mn, Pb, Se, V, Zn, [Ba], [Hg]



# 电子电气产品限令 / Restricted Hazardous Substances

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08404	RoHS 检测用聚丙烯中镉、铬、汞、铅成分分析标准物质	Lead, mercury, cadmium and chromium in polypropylene plastic for RoHS	30g × 4	Cd: 9.26mg/kg,U=0.22mg/kg; Cr: 98.4mg/kg,U=3.4mg/kg; Hg: 93mg/kg,U=2.2mg/kg; Pb: 98.2mg/kg,U=3.3mg/kg
GBW08405	RoHS 检测用聚丙烯中镉、铬、汞、铅成分分析标准物质	Lead, mercury, cadmium and chromium in polypropylene plastic for RoHS		Cd: 92.3mg/kg,U=1.7mg/kg; Cr: 978mg/kg,U=24mg/kg; Hg: 922mg/kg,U=20mg/kg; Pb: 981mg/kg,U=11mg/kg
GBW08406	RoHS 检测用聚丙烯中镉、铬、汞、铅成分分析标准物质	Lead, mercury, cadmium and chromium in polypropylene plastic for RoHS		Cd: 36.2mg/kg,U=0.7mg/kg; Cr: 255mg/kg,U=5mg/kg; Hg: 387mg/kg,U=9mg/kg; Pb: 476mg/kg,U=7mg/kg
GBW(E)081121	RoHS 检测 X 荧光分析用聚丙烯中镉、铬、汞、铅成分分析标准物质	Pb, Hg, Cr, Cd in PP for XRF Analysis (with blank and 3 level concentrations)	40mm(d) × 4mm, set(4)	Cd: 9.2mg/kg,U=0.5mg/kg; Cr: 99mg/kg,U=4mg/kg; Hg: 92mg/kg,U=5mg/kg; Pb: 98mg/kg,U=5mg/kg
GBW(E)081122	RoHS 检测 X 荧光分析用聚丙烯中镉、铬、汞、铅成分分析标准物质	Pb, Hg, Cr, Cd in PP for XRF Analysis (with blank and 3 level concentrations)		Cd: 36.8mg/kg,U=1.8mg/kg; Cr: 251mg/kg,U=12mg/kg; Hg: 370mg/kg,U=18mg/kg; Pb: 453mg/kg,U=24mg/kg
GBW(E)081123	RoHS 检测 X 荧光分析用聚丙烯中镉、铬、汞、铅成分分析标准物质	Pb, Hg, Cr, Cd in PP for XRF Analysis (with blank and 3 level concentrations)		Cd: 92mg/kg,U=4mg/kg; Cr: 983mg/kg,U=43mg/kg; Hg: 907mg/kg,U=39mg/kg; Pb: 961mg/kg,U=41mg/kg
GBW08407	ABS 中铅、铬、镉、汞标准物质	Pb, Cr, Cd, Hg in ABS	10g	Cd: 8.7mg/kg, U=0.4mg/kg; Cr: 97.3mg/kg, U=2.3mg/kg; Hg: 91.5mg/kg, U=4.4mg/kg; Pb: 93.1mg/kg, U=4.2mg/kg
GBW08408	ABS 中铅、铬、镉、汞标准物质	Pb, Cr, Cd, Hg in ABS	10g	Cd: 26.7mg/kg, U=0.5mg/kg; Cr: 288mg/kg, U=6mg/kg; Hg: 271mg/kg, U=11mg/kg; Pb: 276mg/kg, U=9mg/kg
GBW08409	ABS 中铅、铬、镉、汞标准物质	Pb, Cr, Cd, Hg in ABS	10g	Cd: 36.3mg/kg, U=0.7mg/kg; Cr: 380mg/kg, U=7mg/kg; Hg: 373mg/kg, U=9mg/kg; Pb: 378mg/kg, U=7mg/kg
GBW8410	ABS 中铅、铬、镉、汞标准物质	Pb, Cr, Cd, Hg in ABS	10g	Cd: 76.0mg/kg, U=2.3mg/kg; Cr: 777mg/kg, U=21mg/kg; Hg: 748mg/kg, U=29mg/kg; Pb: 778mg/kg, U=17mg/kg
GBW8411	ABS 中铅、铬、镉、汞标准物质	Pb, Cr, Cd, Hg in ABS	10g	Cd: 107mg/kg, U=2mg/kg; Cr: 1122mg/kg, U=31mg/kg; Hg: 1096mg/kg, U=34mg/kg; Pb: 1122mg/kg, U=29mg/kg
GBW ( E ) 081634	RoHS 检测 X 荧光分析用标准物质 ABS 中镉、铬、汞、铅、溴	Cd, Cr, Hg, Pb, Br in ABS for XRF analysis (with blank and 5 level concentrations)	40mm(d) × 4mm, set(6)	Cd: 8.7mg/kg, U=0.5mg/kg; Cr: 97.3mg/kg, U=3.0mg/kg; Hg: 91.5mg/kg, U=4.8mg/kg; Pb: 93.1mg/kg, U=4.7mg/kg; [Br: 90mg/kg]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW ( E ) 081635	RoHS 检测 X 荧光分析用 标准物质 ABS 中镉、铬、汞、铅、溴	Cd、Cr、Hg、Pb、Br in ABS for XRF analysis (with blank and 5 level concentrations)		Cd: 26.7mg/kg, U=0.7mg/kg; Cr: 288mg/kg, U=9mg/kg; Hg: 271mg/kg, U=12mg/kg; Pb: 276mg/kg, U=11mg/kg; [Br: 280mg/kg]
GBW ( E ) 081636	RoHS 检测 X 荧光分析用 标准物质 ABS 中镉、铬、汞、铅、溴	Cd、Cr、Hg、Pb、Br in ABS for XRF analysis (with blank and 5 level concentrations)		Cd: 36.3mg/kg, U=1.0mg/kg; Cr: 380mg/kg, U=11mg/kg; Hg: 373mg/kg, U=12mg/kg; Pb: 378mg/kg, U=11mg/kg; [Br: 376mg/kg]
GBW ( E ) 081637	RoHS 检测 X 荧光分析用 标准物质 ABS 中镉、铬、汞、铅、溴	Cd、Cr、Hg、Pb、Br in ABS for XRF analysis (with blank and 5 level concentrations)		Cd: 76.0mg/kg, U=6.0mg/kg; Cr: 777mg/kg, U=26mg/kg; Hg: 748mg/kg, U=33mg/kg; Pb: 778mg/kg, U=24mg/kg; [Br: 785mg/kg]
GBW ( E ) 081638	RoHS 检测 X 荧光分析用 标准物质 ABS 中镉、铬、汞、铅、溴	Cd、Cr、Hg、Pb、Br in ABS for XRF analysis (with blank and 5 level concentrations)		Cd: 107mg/kg, U=3mg/kg; Cr: 1122mg/kg, U=38mg/kg; Hg: 1096mg/kg, U=41mg/kg; Pb: 1122mg/kg, U=37mg/kg; [Br: 1116mg/kg]
★ BW2079-1	RoHS 检测 X 荧光分析用 PVC 中镉、铬、汞、铅成分分析 标准物质	Cd、Cr、Hg、Pb in PVC	40mm(d) × 4mm, set(6)	Cd: 5.9mg/kg, U=0.4mg/kg; Cr: 93.7mg/kg, U=4.8mg/kg; Hg: 95.9mg/kg, U=5.7mg/kg; Pb: 87.4mg/kg, U=4.1mg/kg
★ BW2079-2	RoHS 检测 X 荧光分析用 PVC 中镉、铬、汞、铅成分分析 标准物质	Cd、Cr、Hg、Pb in PVC		Cd: 17.2mg/kg, U=0.8mg/kg; Cr: 277mg/kg, U=13mg/kg; Hg: 283mg/kg, U=12mg/kg; Pb: 267mg/kg, U=12mg/kg
★ BW2079-3	RoHS 检测 X 荧光分析用 PVC 中镉、铬、汞、铅成分分析 标准物质	Cd、Cr、Hg、Pb in PVC		Cd: 28.9mg/kg, U=1.2mg/kg; Cr: 459mg/kg, U=16mg/kg; Hg: 470mg/kg, U=19mg/kg; Pb: 445mg/kg, U=20mg/kg
★ BW2079-4	RoHS 检测 X 荧光分析用 PVC 中镉、铬、汞、铅成分分析 标准物质	Cd、Cr、Hg、Pb in PVC		Cd: 58.8mg/kg, U=2.0mg/kg; Cr: 930mg/kg, U=48mg/kg; Hg: 968mg/kg, U=40mg/kg; Pb: 905mg/kg, U=37mg/kg
★ BW2079-5	RoHS 检测 X 荧光分析用 PVC 中镉、铬、汞、铅成分分析 标准物质	Cd、Cr、Hg、Pb in PVC		Cd: 70.7mg/kg, U=2.7mg/kg; Cr: 1110mg/kg, U=49mg/kg; Hg: 1159mg/kg, U=49mg/kg; Pb: 1080mg/kg, U=43mg/kg
BW2071	RoHS 检测 X 荧光分析用铜合金 系列——纯铜中铅	Pb in Pure Copper Alloy	set ( 11 )	BW2071-1: blank; BW2071- 2: ( 37 ± 16 ) mg/kg; BW2071- 3: ( 31 ± 9 ) mg/kg; BW2071- 4: ( 18 ± 7 ) mg/kg; BW2071- 5: ( 83 ± 11 ) mg/kg; BW2071- 6: ( 135 ± 12 ) mg/kg; BW2071-7: ( 243 ± 22 ) mg/ kg; BW2071-8: ( 446 ± 33 ) mg/kg; BW2071-9: ( 876 ± 52 ) mg/kg; BW2071-10: ( 1118 ± 89 ) mg/kg; BW2071-11: ( 514 ± 38 ) mg/kg

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW2072	RoHS 检测 X 荧光分析用铜合金系列——铝黄铜中铅	Pb in Brass	set ( 5 )	BW2072-1:(1390 ± 95mg/kg ; BW2072-2: ( 862 ± 67 ) mg/ kg; BW2072-3: ( 512 ± 44 ) mg/kg; BW2072-4: ( 328 ± 21 ) mg/kg; BW2072-5: ( 198 ± 20 ) mg/kg
BW2073	RoHS 检测 X 荧光分析用铜合金系列——黄铜中铅	Pb in Brass	set ( 7 )	BW2073-1: ( 3137 ± 408 ) mg/ kg; BW2073-2: ( 1033 ± 139 ) mg/kg; BW2073-3: ( 191 ± 34 ) mg/kg; BW2073-4: ( 169 ± 17 ) mg/kg; BW2073-5: ( 282 ± 46 ) mg/kg; BW2073-6: ( 83 ± 13 ) mg/kg; BW2073-7: ( 32 ± 8 ) mg/kg
BW2074	RoHS 检测 X 荧光分析用铁合金系列——合金结构钢中铅、铬	Pb, Cr in Iron Alloy	set ( 7 )	BW2074-1: Pb: (12 ± 8) mg/kg; Cr: ( 12015 ± 769 ) mg/kg; BW2074-2: Pb: (135 ± 11) mg/ kg; Cr: ( 14501 ± 1331 ) mg/ kg; BW2074-3: Pb: ( 65 ± 14 ) mg/ kg; Cr: ( 10954 ± 461 ) mg/kg; BW2074-4: Pb: ; 215 ± 25 ) mg/kg; Cr: ( 11086 ± 670 ) mg/ kg; BW2074-5: Pb: ( 97 ± 17 ) mg/ kg; Cr: ( 6029 ± 369 ) mg/kg; BW2074-6: Pb: ( 234 ± 43 ) mg/kg; Cr: ( 14768 ± 956 ) mg/ kg; BW2074-7: Pb: ( 73 ± 20 ) mg/ kg; Cr: ( 18663 ± 1351 ) mg/kg
BW2075	RoHS 检测 X 荧光分析用铝合金系列——变形铝中 Pb,Cd,Hg	Pb,Cd,Hg in deforming aluminum alloy	set ( 6 )	BW2075-1: Pb: ( 22 ± 6 ) mg/ kg; Cd: ( 16 ± 3 ) mg/kg; BW2075-2: Pb: ( 56 ± 10 ) mg/ kg; Cd: ( 47 ± 9 ) mg/kg; BW2075-3: Pb: ( 99 ± 18 ) mg/kg; Cd: ( 94 ± 18 ) mg/kg; BW2075-4: Pb: ( 92 ± 18 ) mg/ kg; Cd: ( 92 ± 19 ) mg/kg; BW2075-5: Pb: ( 200 ± 16 ) mg/kg; Cd: ( 188 ± 13 ) mg/ kg; BW2075-6: Pb: ( 384 ± 19 ) mg/kg; Cd: ( 388 ± 23 ) mg/kg 同时提供 Hg 的信息值



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW2076	RoHS 检测 X 荧光分析用铝合金系列——铝合金中 Pb,Cr	Pb,Cd,Cr in Aluminum Alloy	set ( 6 )	BW2076-1: Pb: ( 59 ± 22 ) mg/kg; Cd: ( 19 ± 11 ) mg/kg; Cr: ( 71 ± 26 ) mg/kg; BW2076-2: Pb: ( 415 ± 40 ) mg/kg; Cd: ( 61 ± 12 ) mg/kg; Cr: ( 198 ± 5 ) mg/kg; BW2076-3: Pb: ( 112 ± 32 ) mg/kg; Cd: ( 123 ± 27 ) mg/kg; Cr: ( 104 ± 4 ) mg/kg; BW2076-4: Pb: ( 571 ± 44 ) mg/kg; Cd: ( 340 ± 16 ) mg/kg; Cr: ( 311 ± 9 ) mg/kg; BW2076-5: Pb: ( 1020 ± 47 ) mg/kg; Cd: ( 592 ± 22 ) mg/kg; Cr: ( 979 ± 22 ) mg/kg; BW2076-6: Pb: ( 1396 ± 24 ) mg/kg; Cd: ( 1228 ± 44 ) mg/kg; Cr: ( 1176 ± 83 ) mg/kg
BW2077	RoHS 检测 X 荧光分析用锡合金系列——锡合金中铅	Pb in Sn Alloy	set ( 5 )	BW2077-1: ( 6661 ± 190 ) mg/kg; BW2077-2: ( 3347 ± 218 ) mg/kg; BW2077-3: ( 1529 ± 82 ) mg/kg; ; BW2077-4: ( 672 ± 60 ) mg/kg; BW2077-5: ( 284 ± 15 ) mg/kg
BW2078	RoHS 检测 X 荧光分析用锌合金系列——锌合金中 Pb,Cd	Pb,Cr in Zn alloy	set ( 5 )	BW2078-1: Pb: ( 49 ± 6 ) mg/kg; Cd: ( 21 ± 2 ) mg/kg; BW2078-2: Pb: ( 108 ± 10 ) mg/kg; Cd: ( 39 ± 3 ) mg/kg; BW2078-3: Pb: ( 214 ± 20 ) mg/kg; Cd: ( 80 ± 6 ) mg/kg; BW2078-4: Pb: ( 422 ± 42 ) mg/kg; Cd: ( 163 ± 9 ) mg/kg; BW2078-5: Pb: ( 855 ± 64 ) mg/kg; Cd: ( 332 ± 25 ) mg/kg
GBW08412	聚乙烯中十溴二苯醚成分分析标准物质	Decabrominated diphenyl ether in Polyethylene	25g × 3	1150mg/kg, U=76mg/kg
GBW08413	聚乙烯中十溴二苯醚成分分析标准物质	Decabrominated diphenyl ether in Polyethylene		369mg/kg, U=21mg/kg
GBW(E)081124	异辛烷中工业五溴二苯醚混合溶液标准物质	Industrial penta-BDE in iso-octane	1.2mL	Total concentration: 50 μg/mL, U=6%
BW3521-2	甲苯中工业五溴二苯醚混合溶液标准物质	Industrial penta-BDE in toluene	1.2mL	Total concentration: 500 μg/mL, U=5%
GBW(E)081125	异辛烷中工业八溴二苯醚混合溶液标准物质	Industrial octa-BDE in in iso-octane	1.2mL	Total concentration: 50 μg/mL, U=6%
BW3522-2	甲苯中工业八溴二苯醚混合溶液标准物质	Industrial octa-BDE in in toluene	1.2mL	Total concentration: 500 μg/mL, U=5%
GBW08709	十溴二苯醚溶液标准物质	Deca-BDE in iso-octane/toluene(V/V 9:1)	1.2mL	50 μg/mL, U=1.4%
BW3523-2	甲苯中十溴二苯醚溶液标准物质	Deca-BDE in toluene	1.2mL	500 μg/mL, U=3%

## 7. 工程技术及高聚物 /Technological, Engineering and High Polymer

粒度及浊度

Particle Size and Turbidity

表面积及微孔特性

Surface area and micropore properties

分子量

Molecular Weight

## 粒度及浊度 /Particle Size and Turbidity

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)120001	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(1.95 \pm 0.06) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(1.98 \pm 0.05) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(2.02 \pm 0.07) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(2.08 \pm 0.08) \mu\text{m}$
GBW(E)120002a	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(3.49 \pm 0.09) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(3.48 \pm 0.10) \mu\text{m}$ ; 数量中值粒径 (number median particle size): $(3.48 \pm 0.11) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(3.57 \pm 0.12) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(3.63 \pm 0.10) \mu\text{m}$ ; 质量中值粒径 (mass median particle size): $(3.58 \pm 0.09) \mu\text{m}$
GBW(E)120003	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(1.95 \pm 0.06) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(1.98 \pm 0.05) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(2.02 \pm 0.07) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(2.08 \pm 0.08) \mu\text{m}$
GBW(E)120004a	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(9.2 \pm 0.2) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(9.4 \pm 0.2) \mu\text{m}$ ; 数量中值粒径 (number median particle size): $(9.7 \pm 0.2) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(9.7 \pm 0.3) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(9.8 \pm 0.3) \mu\text{m}$ ; 质量中值粒径 (mass median particle size): $(10.1 \pm 0.2) \mu\text{m}$
GBW(E)120005	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(16.14 \pm 0.34) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(16.32 \pm 0.54) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(16.32 \pm 0.02) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(16.64 \pm 0.21) \mu\text{m}$
GBW(E)120006a	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(22.4 \pm 0.2) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(22 \pm 0.3) \mu\text{m}$ ; 数量中值粒径 (number median particle size): $(22.1 \pm 0.2) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(22.5 \pm 0.1) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(22.4 \pm 0.2) \mu\text{m}$ ; 质量中值粒径 (mass median particle size): $(22.4 \pm 0.2) \mu\text{m}$
GBW(E)120007	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(36.6 \pm 1.6) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(37 \pm 1.1) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(38.5 \pm 0.8) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(38.7 \pm 1.1) \mu\text{m}$
GBW(E)120008	微粒标准物质	Particle size	10mL	数量峰值粒径 (number peak particle size): $(75 \pm 2.1) \mu\text{m}$ ; 数量均值粒径 (number-average partical size): $(75 \pm 1.9) \mu\text{m}$ ; 质量峰值粒径 (mass peak particle size): $(77.0 \pm 2.9) \mu\text{m}$ ; 质量均值粒径 (mass-average partical size): $(77.3 \pm 3.3) \mu\text{m}$

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW12017	微粒粒度标准物质	Particle size	9mL	数量平均粒径 (number-average partical size):(1294 ± 10) nm; 体积平均粒径 (volume-average partical size):(1294 ± 10) nm
GBW12018	微粒粒度标准物质	Particle size	9mL	数量平均粒径 (number-average partical size):(280.3 ± 2.6) nm; 体积平均粒径 (volume-average partical size):(280.3 ± 2.6) nm
GBW12019	微粒粒度标准物质	Particle size	9mL	数量平均粒径 (number-average partical size):115.1 ± 1.2) nm; 体积平均粒径 (volume-average partical size):(115.1 ± 1.2) nm
★ GBW12031	粒度标准物质	Particle Size	9mL	数量平均粒径 (number-average partical size):(487.2 ± 4.1)nm; 体积平均粒径 (volume-average partical size ) :(487.5 ± 4.1)nm
★ GBW(E)120086	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(776.2 ± 6.5)nm; 体积平均粒径 (volume-average partical size):(777.4 ± 6.5)nm
★ GBW(E)120087	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(709.3 ± 5.9)nm; 体积平均粒径 (volume-average partical size):(710.0 ± 5.9)nm
★ GBW(E)120088	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(424.5 ± 3.8)nm; 体积平均粒径 (volume-average partical size):(424.7 ± 3.8)nm
★ GBW(E)120089	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(209.1 ± 3.2)nm; 体积平均粒径 (volume-average partical size):(209.3 ± 3.2)nm
★ GBW(E)120090	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(84.0 ± 1.9)nm; 体积平均粒径 (volume-average partical size):(84.2 ± 1.9)nm
★ GBW(E)120091	微粒粒度标准物质	Particle Size Certified Reference Materials	9mL	数量平均粒径 (number-average partical size):(65.2 ± 1.5)nm; 体积平均粒径 (volume-average partical size):(65.4 ± 1.5)nm
★ GBW 09705	颗粒数量浓度	Particle number concentration	90mL	2016 个 / 毫升, U=2.2% ( D <sub>50</sub> =5.36 μ m )
★ GBW(E)090307	颗粒数量浓度	Particle number concentration	90mL	2048 个 / 毫升, U=2.3% ( D <sub>50</sub> =9.56 μ m )
★ GBW(E)090306	颗粒数量浓度	Particle number concentration	90mL	948 个 / 毫升, U=2.3% ( D <sub>50</sub> =26.38 μ m )
★ GBW 12001	浊度标准物质	Turbidity	90mL	400NUT, U=3%
★ BW 2048	聚合物悬浊液浊度标准物质	Polymer Suspension turbidity solution	90mL	在 1 小时之内的浊度值变化小于 0.2%

## 表面积及微孔特性 /Surface area and micropore properties

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW 13903	碳黑比表面积标准物质	CRMs for specific surface area of black carbon	10g	( 104.6 ± 2.2 ) m <sup>2</sup> /g , k=2
★ GBW 13904	碳黑比表面积标准物质	CRMs for specific surface area of black carbon	10g	( 29.9 ± 0.7 ) m <sup>2</sup> /g, k=2
★ GBW 13905	碳黑比表面积标准物质	CRMs for specific surface area of black carbon	10g	( 8.96 ± 0.30 ) m <sup>2</sup> /g, k=2
★ GBW 13909	介孔 SiO <sub>2</sub> 比表面积、总孔容及孔径标准物质	CRMs for specific surface area, total pore volume and pore diameter of mesoporous SiO <sub>2</sub>	5g	比表面积: ( 511 ± 15 ) m <sup>2</sup> /g; 总孔容: ( 0.806 ± 0.021 ) cm <sup>3</sup> /g; 平均孔径: ( 6.31 ± 0.10 ) nm; BJH 最可几孔径: ( 5.37 ± 0.08 ) nm 表面积: ( 511 ± 15 ) m <sup>2</sup> /g; 总孔容: ( 0.806 ± 0.021 ) cm <sup>3</sup> /g; 平均孔径: ( 6.31 ± 0.10 ) nm; BJH 最可几孔径: ( 5.37 ± 0.08 ) nm
★ GBW 13910	介孔 SiO <sub>2</sub> 比表面积、总孔容及孔径标准物质	CRMs for specific surface area, total pore volume and pore diameter of mesoporous SiO <sub>2</sub>	5g	比表面积: ( 237.2 ± 5.1 ) m <sup>2</sup> /g; 总孔容: ( 0.842 ± 0.017 ) cm <sup>3</sup> /g; 平均孔径: ( 14.21 ± 0.09 ) nm; BJH 最可几孔径: ( 9.43 ± 0.11 ) nm
★ GBW 13911	介孔 Al <sub>2</sub> O <sub>3</sub> 比表面积、总孔容及孔径标准物质	CRMs for specific surface area, total pore volume and pore diameter of mesoporous Al <sub>2</sub> O <sub>3</sub>	10g	比表面积: ( 59.3 ± 2.3 ) m <sup>2</sup> /g; 总孔容: ( 0.279 ± 0.009 ) cm <sup>3</sup> /g; 平均孔径: ( 18.84 ± 0.64 ) nm
★ GBW 13912	介孔 Al <sub>2</sub> O <sub>3</sub> 比表面积、总孔容及孔径标准物质	CRMs for specific surface area, total pore volume and pore diameter of mesoporous Al <sub>2</sub> O <sub>3</sub>	5g/	比表面积: ( 144.8 ± 4.9 ) m <sup>2</sup> /g; 总孔容: ( 0.260 ± 0.012 ) cm <sup>3</sup> /g; 平均孔径: ( 7.19 ± 0.21 ) nm; BJH 最可几孔径: ( 4.38 ± 0.07 ) nm
★ GBW 13913	Al <sub>2</sub> O <sub>3</sub> 比表面积标准物质	CRMs for specific surface area of Al <sub>2</sub> O <sub>3</sub>	5g	比表面积: ( 5.47 ± 0.22 ) m <sup>2</sup> /g
★ GBW(E) 130365	低比表面积标准物质	CRMs for low specific surface area	10g	( 0.221 ± 0.013 ) m <sup>2</sup> /g, k=2
★ GBW(E) 130366	微孔孔容、孔径标准物质	CRMs for micropore volume and median micropore width	2g	微孔孔容 ( Micropore volume ) : ( 0.242 ± 0.008 ) cm <sup>3</sup> /g, k=2; 微孔孔径 ( Median micropore width ) : ( 0.668 ± 0.019 ) nm, k=2, )

## 分子量 /Molecular Weight

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)050001	窄分布聚苯乙烯分子量标准物质 ( 25℃ )	Polystyene(narrow molecular weight distribution)	0.2g	数均分子量 (number-average molecular weight): 4.18 × 10 <sup>4</sup> g/mol, U=0.2%; 重均分子量 (weight-average molecular weight): 4.63 × 10 <sup>4</sup> g/mol, U=0.6%; 特性粘数 (intrinsic viscosity): 27.15ml/g, U=0.24%
GBW(E)050002	窄分布聚苯乙烯分子量标准物质 ( 25℃ )	Polystyene(narrow molecular weight distribution)	0.2g	数均分子量 (number-average molecular weight): 14.36 × 10 <sup>4</sup> g/mol, U=0.7%; 重均分子量 (weight-average molecular weight): 17.24 × 10 <sup>4</sup> g/mol, U=0.6%; 特性粘数 (intrinsic viscosity): 67.79ml/g, U=0.22%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)050003	窄分布聚苯乙烯分子量标准物质 (25℃)	Polystyene(narrow molecular weight distribution)	0.2g	数均分子量 (number-average molecular weight): $50.4 \times 10^4$ g/mol, U=2.2%; 重均分子量 (weight-average molecular weight): $63.5 \times 10^4$ g/mol, U=1%; 特性粘数 (intrinsic viscosity): 169.13ml/g, U=0.53%
BW2068	聚苯乙烯分子量标准物质	Polystyene(narrow molecular weight distribution)	0.2g	Mw: 2000, Mn: 1900, U=8.5%
BW2069	聚苯乙烯分子量标准物质	Polystyene(narrow molecular weight distribution)	0.2g	Mw: 4150, Mn: 4029, U=8.5%
GBW(E)050004	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 4320, U=7.6%
GBW(E)050005	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 12600, U=7.8%
GBW(E)050006	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 60600, U=7.6%
GBW(E)050007	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 110000, U=7.8%
GBW(E)050008	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 289000, U=7.8%
GBW(E)050009	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 521000, U=7.6%



## 8. 物理学与物理化学 /Physics and Physico-Chemistry

熔点

Melting Point

溶液酸度

pH

溶液电导率

Aqueous Electrolytic Conductivity

热量及热分析

Caloric and Thermal Analysis

湿度

Humidity and Moisture

黏度

Viscosity

熔体流动速率

Melt Flow Rate

标准色板

Standard Color Plate

渗透压摩尔浓度标准

Osmolality Standard



## 熔点 /Melting Point

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13231	熔点标准物质 – 对硝基甲苯	4-Nitrotoluene melting point certified reference material,	2g	Capillary melting point (completely melted, 0.20°C/min): (52.03 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (52.58 ± 0.20)°C; melting point( F = 1, Δ T = 0): (51.60 ± 0.05)°C
GBW13232	熔点标准物质 – 萘	Naphthalene melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (80.11 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (80.62 ± 0.20)°C; melting point( F = 1, Δ T = 0): (79.86 ± 0.05)°C
GBW13233	熔点标准物质 – 苯甲酸	Benzoic acid melting point certified reference material	0.2g	Capillary melting point (completely melted, 0.20°C/min): (122.81 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (123.33 ± 0.20)°C; melting point( F = 1, Δ T = 0): (122.34 ± 0.05)°C
GBW13234	熔点标准物质 – 1, 6-己二酸	1, 6-hexanedioic acid melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (152.33 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (152.94 ± 0.20)°C; melting point( F = 1, Δ T = 0): (151.59 ± 0.05)°C
GBW13234b	熔点标准物质 – 1, 6-己二酸	1, 6-hexanedioic acid melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (152.33 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (152.94 ± 0.20)°C; melting point( F = 1, Δ T = 0): (151.59 ± 0.05)°C
GBW13235	熔点标准物质 – 对甲氧基苯甲酸	P-Methoxybenzoic acid melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (184.15 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (184.73 ± 0.20)°C; melting point( F = 1, Δ T = 0): (183.32 ± 0.05)°C
GBW13236	熔点标准物质 – 蒽	Anthracene melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (216.33 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (216.92 ± 0.20)°C; melting point( F = 1, Δ T = 0): (215.88 ± 0.05)°C
GBW13237	熔点标准物质 – 对硝基苯甲酸	P-Nitrobenzoic acid melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (240.39 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (241.13 ± 0.20)°C; melting point( F = 1, Δ T = 0): (239.45 ± 0.05)°C
GBW13238	熔点标准物质 – 蒽醌	Anthraquinone melting point certified reference material	2g	Capillary melting point (completely melted, 0.20°C/min): (285.19 ± 0.11)°C; Capillary melting point (completely melted, 1.0°C/min): (285.72 ± 0.20)°C; melting point( F = 1, Δ T = 0): (284.65 ± 0.05)°C

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)130332	月桂酸熔点标准物质	Melting point for organic substances–lauric acid	2g	Capillary melting point (completely melted, 0.20℃ /min): (44.24 ± 0.14)℃; Capillary melting point (completely melted, 0.50℃ /min): (44.35 ± 0.16)℃; Capillary melting point (completely melted, 1.0℃ /min): (44.74 ± 0.21)℃
GBW(E)130333	联苯熔点标准物质	Melting point for organic substances–biphenyl	2g	Capillary melting point (completely melted, 0.20℃ /min): (69.17 ± 0.19)℃; Capillary melting point (completely melted, 0.50℃ /min): (69.48 ± 0.20)℃; Capillary melting point (completely melted, 1.0℃ /min): (69.72 ± 0.20)℃
GBW(E)130334	咪唑熔点标准物质	Melting point for organic substances–imidazole	2g	Capillary melting point (completely melted, 0.20℃ /min): (89.78 ± 0.15)℃; Capillary melting point (completely melted, 0.50℃ /min): (89.94 ± 0.15)℃; Capillary melting point (completely melted, 1.0℃ /min): (90.34 ± 0.20)℃
GBW(E)130335	乙酰苯胺熔点标准物质	Melting point for organic substances–acetanilide	2g	Capillary melting point (completely melted, 0.20℃ /min): (114.56 ± 0.15)℃; Capillary melting point (completely melted, 0.50℃ /min): (114.84 ± 0.14)℃; Capillary melting point (completely melted, 1.0℃ /min): (115.22 ± 0.18)℃
GBW(E)130336	非那西丁熔点标准物质	Melting Point Certified Reference Materials for Organic Substances–phenacetin	2g	Capillary melting point (completely melted, 0.20℃ /min): (134.87 ± 0.14)℃; Capillary melting point (completely melted, 0.50℃ /min): (135.21 ± 0.16)℃; Capillary melting point (completely melted, 1.0℃ /min): (135.52 ± 0.18)℃
GBW(E)130337	对甲苯甲酸熔点标准物质	Melting point for organic substances–	2g	Capillary melting point (completely melted, 0.20℃ /min): (180.34 ± 0.16)℃; Capillary melting point (completely melted, 0.50℃ /min): (180.62 ± 0.19)℃; Capillary melting point (completely melted, 1.0℃ /min): (180.97 ± 0.19)℃
GBW(E)130338	蒽熔点标准物质	Melting point for organic substances–anthracene	2g	Capillary melting point (completely melted, 0.20℃ /min): (215.07 ± 0.13)℃; Capillary melting point (completely melted, 0.50℃ /min): (215.43 ± 0.15)℃; Capillary melting point (completely melted, 1.0℃ /min): (215.68 ± 0.19)℃
GBW(E)130339	咔唑熔点标准物质	Melting point for organic substances–carbazole	2g	Capillary melting point (completely melted, 0.20℃ /min): (244.76 ± 0.17)℃; Capillary melting point (completely melted, 0.50℃ /min): (244.85 ± 0.16)℃; Capillary melting point (completely melted, 1.0℃ /min): (245.02 ± 0.19)℃

## 溶液酸度 /pH

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW13101	四草酸三氢钾 pH 标准物质	pH standard–Potassium Tetroxalate Dihydrate	20g	(1.680 ± 0.005)pH(25℃ )
★ GBW13102	酒石酸氢钾 pH 标准物质	pH standard–Potassium Hydrogen Tartrate	20g	(3.559 ± 0.005)pH(25℃ )
GBW13103	邻苯二甲酸氢钾 pH 标准物质	pH standard–Potassium hydrogen phthalate	20g	(4.003 ± 0.005)pH(25℃ )
GBW13104	磷酸二氢钾 pH 标准物质	pH standard–Potassium dihydrogen phosphate	20g	(6.864 ± 0.005)pH(25℃ )
GBW13105	磷酸氢二钠 pH 标准物质	pH standard–Disodium hydrogen phosphate	20g	(6.864 ± 0.005)pH(25℃ )
GBW13106	硼砂 pH 标准物质	pH standard–Sodium tetraborate decahydrate (Borax)	20g	(9.182 ± 0.005)pH(25℃ )
GBW(E)130068	四草酸氢钾 pH 标准物质	pH standard–Potassium tetroxalate dihydrate	1 unit	(1.68 ± 0.01)pH(25℃ )
GBW(E)130069	酒石酸氢钾 pH 标准物质	pH standard–Potassium hydrogen tartrate	1unit	(3.56 ± 0.01)pH(25℃ )
GBW(E)130070	邻苯二甲酸氢钾 pH 标准物质	pH standard – Potassium hydrogen phthalate	1unit	(4.00 ± 0.01)pH(25℃ )
GBW(E)130071	混合磷酸盐 pH 标准物质	"pH standard–Phosphate buffers (Potassium Dihydrogen Phosphate, Disodium Hydrogen Phosphate)"	1unit	(6.86 ± 0.01)pH(25℃ )
GBW(E)130072	硼砂 pH 标准物质	pH standard – Sodium Tetraborate Decahydrate (Borax)	1unit	(9.18 ± 0.01)pH(25℃ )
★ GBW 13107	氢氧化钙 pH 标准物质	pH standard–Calcium Hydroxide	20g	(12.460 ± 0.005)pH(25℃ )
★ GBW 13108	柠檬酸二氢钾 pH 标准物质	pH standard–Potassium Dihydrogen Citrate	20g	(3.775 ± 0.005)pH(25℃ )
★ GBW 13109	碳酸钠 pH 标准物质	pH standard–Sodium Carbonate	20g	(10.011 ± 0.005)pH(25℃ )
★ GBW 13110	碳酸氢钠 pH 标准物质	pH standard–Sodium Bicarbonate	20g	(10.011 ± 0.005)pH(25℃ )
★ GBW 13111	三羟甲基氨基甲烷 pH 标准物质	pH standard–Tris(hydroxymethyl) Aminomethane	20g	(7.696 ± 0.005)pH(25℃ )
★ GBW 13112	三羟甲基氨基甲烷盐酸盐 pH 标准物质	pH standard–Tris(hydroxymethyl) Aminomethane Hydrochloride	20g	(7.696 ± 0.005)pH(25℃ )

## 溶液电导率 /Aqueous Electrolytic Conductivity

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13120	氯化钾电导率标准物质	Aqueous electrolytic conductivity–KCl(Solid form)	15g	71.1352gKCl/1000g water solution (mass in vacuum): (11.131 ± 0.003)S/m (25℃ )
GBW13121	电解质电导率水溶液标准物质	Aqueous electrolytic conductivity	100 mL	20.84 μ S/cm (25℃ ), U=1.2%(k=2)
GBW13122	电解质电导率水溶液标准物质	Aqueous electrolytic conductivity	100 mL	50.49 μ S/cm (25℃ ), U=0.5%(k=2)

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13123	电解质电导率水溶液标准物质	Aqueous electrolytic conductivity	100 mL	12.875 mS/cm (25°C ), U=0.08%(k=2)
GBW13124	电解质电导率水溶液标准物质	Aqueous electrolytic conductivity	100 mL	111.57 mS/cm (25°C ), U=0.09%(k=2)
GBW(E)130106	氯化钾电导率标准物质	Aqueous electrolytic conductivity-KCl(Solid form)	20g	0.14085 S/cm (25°C ), U=0.25%
GBW(E)130107	氯化钾电导率溶液标准物质	Aqueous electrolytic conductivity-KCl(Liquid form)	100ml	1411 $\mu$ S/cm(25°C ), U=0.25%
GBW(E)130108	氯化钾电导率溶液标准物质	Aqueous electrolytic conductivity-KCl(Liquid form)	100ml	147.4 $\mu$ S/cm(25°C ), U=0.25%
GBW(E)130035	苯甲酸热量标准物质	Benzoic acid calorimetric reference material	70 pieces	26485 J/g, U=1%

## 热量及热分析 /Caloric and Thermal Analysis

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)130233	聚乙烯热量标准物质	Calorimetric Standard-Polythene	20g	46506 J/g, U=0.1%
★GBW(E)130401	异辛烷液体热值标准物质	Calorific value of isooctane	50ml	高位发热量 47777J/g, U=57J/g (k=2)
GBW13202	铟 - 热分析标准物质	Thermal analysis-Indium	0.75g	enthalpy of melting : (3265 $\pm$ 429.75)J/mol; melting point: ( 7 $\pm$ 0.01)K
GBW13203	摩尔热容 $\alpha$ -Al <sub>2</sub> O <sub>3</sub> 标准物质	Heat capacity of $\alpha$ -Al <sub>2</sub> O <sub>3</sub>	40mg	99.97%, U=0.2%
GBW(E)130182	热分析标准物质 ( 铟 )	Thermal analysis-Indium	0.5g	Melt temperature: (156.52 $\pm$ 0.26)°C; melting heat: (28.53 $\pm$ 0.30)J/g
GBW(E)130183	热分析标准物质 ( 锡 )	Thermal analysis-Tin	0.5g	Melt temperature: (231.81 $\pm$ 0.06)°C; melting heat: (60.24 $\pm$ 0.18)J/g
GBW(E)130184	热分析标准物质 ( 铅 )	Thermal analysis-Lead	0.5g	Melt temperature: (327.77 $\pm$ 0.46)°C; melting heat: (23.02 $\pm$ 0.28)J/g
GBW(E)130185	热分析标准物质 ( 锌 )	Thermal analysis-Zinc	0.5g	Melt temperature: (420.67 $\pm$ 0.60)°C; melting heat: (107.6 $\pm$ 1.3)J/g
GBW(E)130186	热分析标准物质 ( 硝酸钾 )	Thermal analysis-Potassium nitrate	1g	Phase transition temperature : (130.45 $\pm$ 0.44)°C
GBW(E)130187	热分析标准物质 ( 二氧化硅 )	Thermal analysis-Silicon dioxide	1g	Phase transition temperature : (574.29 $\pm$ 0.94)°C

## 湿度 /Humidity and Moisture

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13501	水渗透管 (标准湿度发生源)	Water Permeation tube (humidity generator)	/	(30 ~ 2000)uL/L, U=4%
GBW(E)130209	卡尔·费休法水分分析标准物质	Karl Fischer moisture standard: moisture in methanol	6mL	1.40 mg/g, U=1.3%
GBW(E)130210	卡尔·费休法水分分析标准物质	Karl Fischer moisture standard: moisture in methanol	6mL	5.11 mg/g, U=1.4%
GBW(E)130211	卡尔·费休法水分分析标准物质	Karl Fischer moisture standard: sodium tartrate-2-hydrate	2g	15.66%, U=2.0%
★ GBW13511	水的饱和辛醇溶液水分含量标准物质	CRMs for water content of water saturated octanol	5ml	( 4.76 ± 0.11 ) %
★ GBW13512	液体水分标准物质	CRMs for water content of liquid	10ml	( 1.000 ± 0.013 ) %
★ GBW13513	液体水分标准物质	CRMs for water content of liquid	10ml	( 0.1066 ± 0.0031 ) %
★ GBW13514	液体水分标准物质	CRMs for water content of liquid	10ml	( 0.0139 ± 0.0012 ) %

## 黏度 /Viscosity

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13601	标准黏度液	Standard Liquid of Viscosity	250ml	2mm <sup>2</sup> /s, U=0.10%(20℃)
GBW13602	标准黏度液	Standard Liquid of Viscosity	250ml	5mm <sup>2</sup> /s, U=0.16%(20℃)
GBW13603	标准黏度液	Standard Liquid of Viscosity	250ml	10mm <sup>2</sup> /s, U=0.16%(20℃)
GBW13604	标准黏度液	Standard Liquid of Viscosity	250ml	20mm <sup>2</sup> /s, U=0.21%(20℃)
GBW13605	标准黏度液	Standard Liquid of Viscosity	250ml	50mm <sup>2</sup> /s, U=0.21%(20℃)
GBW13606	标准黏度液	Standard Liquid of Viscosity	250ml	100mm <sup>2</sup> /s, U=0.27%(20℃)
GBW13607	标准黏度液	Standard Liquid of Viscosity	250ml	200mm <sup>2</sup> /s, U=0.27%(20℃)
GBW13608	标准黏度液	Standard Liquid of Viscosity	250ml	500mm <sup>2</sup> /s, U=0.33%(20℃)
GBW13609	标准黏度液	Standard Liquid of Viscosity	250ml	1000mm <sup>2</sup> /s, U=0.33%(20℃)
GBW13610	标准黏度液	Standard Liquid of Viscosity	250ml	2000mm <sup>2</sup> /s, U=0.39%(20℃)
GBW13611	标准黏度液	Standard Liquid of Viscosity	250ml	5000mm <sup>2</sup> /s, U=0.39%(20℃)
GBW13612	标准黏度液	Standard Liquid of Viscosity	250ml	10000mm <sup>2</sup> /s, U=0.44%(20℃)
GBW13613	标准黏度液	Standard Liquid of Viscosity	250ml	20000mm <sup>2</sup> /s, U=0.44%(20℃)
GBW13614	标准黏度液	Standard Liquid of Viscosity	250ml	50000mm <sup>2</sup> /s, U=0.50%(20℃)
GBW13615	标准黏度液	Standard Liquid of Viscosity	250ml	100000mm <sup>2</sup> /s, U=0.50%(20℃)
GBW(E)130251	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	1.5mm <sup>2</sup> /s, U=0.2%, 同时给出动力学黏度
GBW(E)130252	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	3mm <sup>2</sup> /s, U=0.2%, 同时给出动力学黏度
GBW(E)130253	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	5mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度
GBW(E)130254	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	10mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度
GBW(E)130255	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	20mm <sup>2</sup> /s, U=0.4%, 同时给出动力学黏度
GBW(E)130256	37℃标准黏度液	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	30mm <sup>2</sup> /s, U=0.5%, 同时给出动力学黏度
BW2050	37℃标准黏度液	Standard Liquid of Viscosity—for blood flow measurement(38℃)	8mL	8.0mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度



## 熔体流动速率 /Melt Flow Rate

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)130096	聚乙烯熔体流动速率标准物质	Polythene(melt flow rate)	35g	2.20g/10min, U=0.06g/10min
GBW(E)130097	聚乙烯熔体流动速率标准物质	Polythene(melt flow rate)	35g	3.90g/10min, U=0.18g/10min
GBW(E)130098	聚乙烯熔体流动速率标准物质	Polythene(melt flow rate)	35g	7.30g/10min, U=0.35g/10min
GBW(E)130163	聚苯乙烯熔体流动速率标准物质	Polythrene(melt flow rate)	35g	3.00g/10min, U=0.2g/10min
GBW(E)130164	聚丙烯熔体流动速率标准物质	Polypropylene(melt flow rate)	35g	1.65g/10min, U=0.11g/10min
GBW(E)130165	聚丙烯熔体流动速率标准物质	Ppolypropylene(melt flow rate)	35g	3.10g/10min, U=0.22g/10min
BW2047	熔体流动速率标准物质 (聚丙烯)	Melt Flow Rate(PP)	35g	19.11g/10min, U=0.70g/10min

## 标准色板 /Standard Color Plate

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW13301	乳白玻璃	Opal glass	单块, 50mm × 50mm	380nm~780nm 光谱反射因数, 波长间隔 10nm; 三刺激值 X、Y、Z 和色品坐标 x、y 等色度量值。U ( Y ) =1.6 ( k=2 ) ; U(x),U(y)=0.0044, ( k=2 )
GBW13302	陶瓷标准色板	Ceramic plates for colorimetry	9 块 / 套, 可拆分	包含系列标准白板 ( 白度 60/70/80/90 )、白、红、绿、蓝、黄 9 种色板。提供蓝光白度 R457、380nm~780nm 光谱反射因数, 三刺激值 X、Y、Z 和色品坐标 x、y; CIE1976 明度 L*、坐标 a*、b* 和彩度、色调角 等色度量值。U ( R457 ) =1.6( k=2 ); 几何条件为 0:d 时, U ( Y ) =1.6 ( k=2 ) 、 U(x),U(y)=0.0044, ( k=2 )。

## 渗透压摩尔浓度标准 /Osmolality Standard

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★GBW(E)130367	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(99.9 ± 1.5)mOsmol/kg
★GBW(E)130368	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(200.1 ± 1.5)mOsmol/kg
★GBW(E)130369	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(300.0 ± 1.5)mOsmol/kg
★GBW(E)130370	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(400.1 ± 1.9)mOsmol/kg
★GBW(E)130371	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(500.0 ± 2.3)mOsmol/kg
★GBW(E)130372	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(599.9 ± 2.8)mOsmol/kg
★GBW(E)130373	氯化钠溶液 ( 渗透压摩尔浓度标准 )	sodium chloride solution ( Osmolality Standard )	2mL	(699.6 ± 3.2)mOsmol/kg

## 9. 核材料与放射性 /Nuclear and Radioactivity



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW04405	碳酸钙中碳、氧同位素标准物质	Stable isotope of carbon and oxygen in carbonate	10g	$\delta$ 13CVPDB : $(0.57 \pm 0.03) \times 10^{-3}$ ; $\delta$ 18OVPDB : $(-8.49 \pm 0.14) \times 10^{-3}$
GBW04408	炭黑中碳同位素标准物质	Stable isotope of carbon in charcoal black	10g	$\delta$ 13CVPDB : $(-36.91 \pm 0.10) \times 10^{-3}$
GBW04409	硅酸盐同位素标准物质氧	Oxygen isotope of silicite(quartz)	10g	$\delta$ 18OV-SMOW : $(11.11 \pm 0.06) \times 10^{-3}$
GBW04410	硅酸盐氧同位素标准物质	Oxygen isotope of silicite(quartz)	10g	$\delta$ 18OV-SMOW : $(-1.75 \pm 0.08) \times 10^{-3}$
GBW04416	碳酸盐中碳、氧稳定同位素标准物质	Caicium carbonate for carbon and oxygen isotopes	2g	$\delta$ 13CPDB : $(1.61 \pm 0.03) \times 10^{-3}$ ; $\delta$ 18OPDB : $(-11.59 \pm 0.11) \times 10^{-3}$
GBW04417	碳酸盐中碳、氧稳定同位素标准物质	Caicium carbonate for carbon and oxygen isotopes	4g	$\delta$ 13CPDB : $(-6.06 \pm 0.06) \times 10^{-3}$ ; $\delta$ 18OPDB : $(-24.12 \pm 0.19) \times 10^{-3}$
GBW04421	硅同位素标准物质	Certified reference material for silicon isotope	4g	$\delta$ 30SiNBS-28 : $(-0.02 \pm 0.10) \times 10^{-3}$
GBW04422	硅同位素标准物质	Certified reference material for silicon isotope	4g	$\delta$ 30SiNBS-28 : $(-2.68 \pm 0.10) \times 10^{-3}$
GBW04411	铷锶年龄标准物质 (钾长石)	Certified reference material for Rb-Sr dating (potassium feldspar)	10g	Rb, Sr, $^{87}\text{Sr}/^{86}\text{Sr}$
GBW04412	铀系年龄标准物质	Sample of uranium-series method dating	10g	U, $^{234}\text{U}/^{238}\text{U}$ , $^{230}\text{Th}/^{234}\text{U}$ , age
GBW04413	铀系年龄标准物质	Sample of uranium-series method dating	10g	U, $^{234}\text{U}/^{238}\text{U}$ , $^{230}\text{Th}/^{234}\text{U}$ , age
GBW04418	氩-氩法地质年龄标准物质 (角闪石)	The hornblende reference material using Ar40-Ar39 dating	6.3g	K, $^{40}\text{Ar}$ , age
GBW04419	钐-钕地质年龄标准物质	Whole-Rock RM for Sm-Nd Isotopic Dating	10g	Sm, Nd, $^{143}\text{Nd}/^{144}\text{Nd}$
GBW04435	铼-钨定年标准物质	Reference material for Re-Os dating	7g	Re, $^{187}\text{Os}$ , age
GBW04436	铼-钨定年标准物质	Reference material for Re-Os dating	7g	Re, $^{187}\text{Os}$ , age
GBW04437	锌同位素标准物质	Isotopic abundance ratios of Zinc in $\text{Zn}(\text{NO}_3)_2$ solution	1.5ml	$^{64}\text{Zn}/^{66}\text{Zn}$ :1.7629, U=0.14%; $^{67}\text{Zn}/^{66}\text{Zn}$ :0.14483, U=0.071%; $^{68}\text{Zn}/^{66}\text{Zn}$ :0.66535, U=0.13%; $^{70}\text{Zn}/^{66}\text{Zn}$ :0.02120, U=0.78%;
GBW04438	钐同位素标准物质	Isotopic abundance ratios of Samarium in $\text{Sm}(\text{NO}_3)_3$ solution	1.5ml	$^{144}\text{Sm}/^{152}\text{Sm}$ :0.11551, U=0.094%; $^{147}\text{Sm}/^{152}\text{Sm}$ :0.56172, U=0.090%; $^{148}\text{Sm}/^{152}\text{Sm}$ :0.42131, U=0.092%; $^{149}\text{Sm}/^{152}\text{Sm}$ :0.51758, U=0.092%; $^{150}\text{Sm}/^{152}\text{Sm}$ :0.27571, U=0.112%; $^{154}\text{Sm}/^{152}\text{Sm}$ :0.84990, U=0.088%;

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW04440	钕同位素标准物质	Isotopic Abundances of Neodymium in Nd(NO <sub>3</sub> ) <sub>3</sub> Solution	1.5ml	<sup>142</sup> Nd, <sup>143</sup> Nd, <sup>144</sup> Nd, <sup>145</sup> Nd, <sup>146</sup> Nd, <sup>148</sup> Nd, <sup>150</sup> Nd
GBW04441	111Cd 浓缩同位素稀释剂标准物质	Enriched Isotope <sup>111</sup> Cd Spike Solution	5mL	<sup>106</sup> Cd/ <sup>111</sup> Cd:0.0000923 ± 0.0000012; <sup>108</sup> Cd/ <sup>111</sup> Cd:0.0001067 ± 0.0000015; <sup>110</sup> Cd/ <sup>111</sup> Cd:0.006247 ± 0.000018; <sup>112</sup> Cd/ <sup>111</sup> Cd:0.018548 ± 0.000053; <sup>113</sup> Cd/ <sup>111</sup> Cd: .004377 ± 0.000013; <sup>114</sup> Cd/ <sup>111</sup> Cd:0.006102 ± 0.000019; <sup>116</sup> Cd/ <sup>111</sup> Cd:0.0009359 ± 0.0000081; Cd: (5.680 ± 0.011) × 10 <sup>-8</sup> mol/g
GBW04442	207Pb 浓缩同位素稀释剂标准物质	Enriched Isotope <sup>207</sup> Pb Spike Solution	5mL	<sup>204</sup> Pb/ <sup>207</sup> Pb: 0.0010554 ± 0.0000063; <sup>206</sup> Pb/ <sup>207</sup> Pb: 0.015749 ± 0.000066; <sup>208</sup> Pb/ <sup>207</sup> Pb: 0.18194 ± 0.00023;Pb:(1.9361 ± 0.0039) × 10 <sup>-8</sup> mol/g
GBW04443	202Hg 浓缩同位素稀释剂标准物质	Enriched Isotope <sup>202</sup> Hg Spike Solution	5mL	<sup>196</sup> Hg/ <sup>202</sup> Hg: 0.0003832 ± 0.0000030; <sup>198</sup> Hg/ <sup>202</sup> Hg: 0.000831 ± 0.000038; <sup>199</sup> Hg/ <sup>202</sup> Hg: 0.002290 ± 0.000065; <sup>200</sup> Hg/ <sup>202</sup> Hg: 0.003387 ± 0.000086; <sup>201</sup> Hg/ <sup>202</sup> Hg: 0.002245 ± 0.000054; <sup>204</sup> Hg/ <sup>202</sup> Hg: 0.001903 ± 0.000033;Hg: (2.978 ± 0.024) × 10 <sup>-8</sup> mol/g
GBW04444	铁同位素丰度标准物质	Isotopic abundances of iron in Fe(NO <sub>3</sub> ) <sub>3</sub>	2mL	<sup>54</sup> Fe 丰度: ( 0.00594 ± 0.00021 ) %; <sup>56</sup> Fe 丰度: ( 99.9405 ± 0.0044 ) %; <sup>57</sup> Fe 丰度: ( 0.04228 ± 0.00025 ) %; <sup>58</sup> Fe 丰度: ( 0.0113 ± 0.0048 ) %
GBW04445	铁同位素丰度标准物质	Isotopic abundances of iron in Fe(NO <sub>3</sub> ) <sub>3</sub>	2mL	<sup>54</sup> Fe 丰度: ( 99.9048 ± 0.0016 ) %; <sup>56</sup> Fe 丰度: ( 0.0937 ± 0.0017 ) %; <sup>57</sup> Fe 丰度: ( 0.00153 ± 0.00020 ) %
GBW04446	铁同位素丰度标准物质	Isotopic abundances of iron in Fe(NO <sub>3</sub> ) <sub>3</sub>	2mL	<sup>54</sup> Fe 丰度: ( 5.8363 ± 0.0062 ) %; <sup>56</sup> Fe 丰度: ( 91.7621 ± 0.0066 ) %; <sup>57</sup> Fe 丰度: ( 2.1219 ± 0.0057 ) %; <sup>58</sup> Fe 丰度: ( 0.2797 ± 0.0079 ) %
★ GBW04447	硒同位素溶液标准物质	Selenium Isotopic Reference Material in in Selenious Acid Solution	2mL	<sup>78</sup> Se/ <sup>76</sup> Se: 0.020526 ± 0.000007; <sup>80</sup> Se/ <sup>76</sup> Se: 0.019722 ± 0.000009; <sup>82</sup> Se/ <sup>76</sup> Se: 0.019680 ± 0.000008; <sup>74</sup> Se/ <sup>76</sup> Se: 0.000749 ± 0.000040; <sup>77</sup> Se/ <sup>76</sup> Se: 0.00415 ± 0.00008
★ GBW04448	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	<sup>78</sup> Se/ <sup>76</sup> Se: 0.050555 ± 0.000024; <sup>80</sup> Se/ <sup>76</sup> Se: 0.049379 ± 0.000026; <sup>82</sup> Se/ <sup>76</sup> Se: 0.051232 ± 0.000027; <sup>74</sup> Se/ <sup>76</sup> Se: 0.001234 ± 0.000029; <sup>77</sup> Se/ <sup>76</sup> Se: 0.009591 ± 0.000008
★ GBW04449	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	<sup>78</sup> Se/ <sup>76</sup> Se: 0.102274 ± 0.000051; <sup>80</sup> Se/ <sup>76</sup> Se: 0.101196 ± 0.000035; <sup>82</sup> Se/ <sup>76</sup> Se: 0.101567 ± 0.000049; <sup>74</sup> Se/ <sup>76</sup> Se: 0.002127 ± 0.000037; <sup>77</sup> Se/ <sup>76</sup> Se: 0.017375 ± 0.000004

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW04450	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $0.20400 \pm 0.00007$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $0.20244 \pm 0.00009$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $0.20670 \pm 0.00008$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.003929 \pm 0.000042$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.031944 \pm 0.000012$
★ GBW04451	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $0.40375 \pm 0.00013$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $0.39891 \pm 0.00016$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $0.39912 \pm 0.00016$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.007334 \pm 0.000040$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.060682 \pm 0.000029$
★ GBW04452	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $0.93100 \pm 0.00027$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $0.92710 \pm 0.00029$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $0.93799 \pm 0.00035$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.016536 \pm 0.000009$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.135987 \pm 0.000044$
★ GBW04453	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $2.5608 \pm 0.0009$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $2.5354 \pm 0.0010$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $2.5211 \pm 0.0014$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.044406 \pm 0.000027$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.36330 \pm 0.00008$
★ GBW04454	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $5.4564 \pm 0.0025$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $5.4047 \pm 0.0027$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $5.3985 \pm 0.0032$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.09376 \pm 0.00010$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.76826 \pm 0.00019$
★ GBW04455	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $10.1225 \pm 0.0043$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $9.9670 \pm 0.0046$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $10.0997 \pm 0.0042$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.09390 \pm 0.00006$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.79040 \pm 0.00019$
★ GBW04456	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $15.0034 \pm 0.0044$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $14.8697 \pm 0.0050$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $15.1890 \pm 0.0054$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.09480 \pm 0.00013$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.79348 \pm 0.00025$
★ GBW04457	硒同位素溶液标准物质	Selenium Isotopic Reference Material in Selenious Acid Solution	2mL	$^{78}\text{Se}/^{76}\text{Se}$ : $2.5675 \pm 0.0012$ ; $^{80}\text{Se}/^{76}\text{Se}$ : $5.3980 \pm 0.0023$ ; $^{82}\text{Se}/^{76}\text{Se}$ : $0.95588 \pm 0.0055$ ; $^{74}\text{Se}/^{76}\text{Se}$ : $0.09354 \pm 0.00010$ ; $^{77}\text{Se}/^{76}\text{Se}$ : $0.82329 \pm 0.00024$
★ GBW04462	$^{54}\text{Fe}$ 浓缩同位素稀释剂标准物质	Enriched Isotope $^{54}\text{Fe}$ Spike Solution		丰度比 $^{56}\text{Fe}/^{54}\text{Fe}$ : $0.11313 \pm 0.00015$ ; $^{57}\text{Fe}/^{54}\text{Fe}$ : $0.002313 \pm 0.000044$ ; $^{58}\text{Fe}/^{54}\text{Fe}$ : $0.0002673 \pm 0.000055$ ; 浓度 $(1.4467 \pm 0.0072) \times 10^{-7} \text{mol/g}$
★ GBW04463	$^{65}\text{Cu}$ 浓缩同位素稀释剂标准物质	Enriched Isotope $^{65}\text{Cu}$ Spike Solution		丰度比 $^{63}\text{Cu}/^{65}\text{Cu}$ : $0.11584 \pm 0.00042$ ; 浓度 $(1.5680 \pm 0.0060) \times 10^{-7} \text{mol/g}$
★ GBW04464	$^{67}\text{Zn}$ 浓缩同位素稀释剂标准物质	Enriched Isotope $^{67}\text{Zn}$ Spike Solution		丰度比 $^{64}\text{Zn}/^{67}\text{Zn}$ : $0.02486 \pm 0.00045$ ; $^{66}\text{Zn}/^{67}\text{Zn}$ : $0.06362 \pm 0.00011$ ; $^{68}\text{Zn}/^{67}\text{Zn}$ : $0.14544 \pm 0.00093$ ; $^{70}\text{Zn}/^{67}\text{Zn}$ : $0.001432 \pm 0.000037$ ; 浓度 $(1.3218 \pm 0.0043) \times 10^{-7} \text{mol/g}$

## 10. 临床与卫生 /Clinic and Sanitation

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW09101	人发成份分析标准物质	Human hair	7g	Ag, Al, As, Ba, Br, Ca, Cd, Cl, Co, Cr, Cu, Fe, Hg, I, K, La, Mn, Mg, Na, Ni, Mo, P, Pb, Se, Sc, Sb, S, Sr, V, Zn
GBW07601	人发粉成分分析标准物质	Human hair powder	20g	Ag, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Hg, La, Li, Mg, Mn, Mo, N, Na, Ni, P, Pb, S, Sb, Sc, Se, Si, Sr, Ti, Y, Zn, [Au], [B], [Dy], [Br], [Br], [Eu], [K], [Sm]
GBW09101a	人发中稀土元素成份分析标准物质	Rare Earth Elements in Human hair	4g	Nd, Sm, La, Ce, [Er], [Tb], [Pr], [Eu], [Lu], [Dy], [Y], [Gd], [Tm], [Ho], [Yb]
GBW(E)090065	血细胞标准物质	Blood Cell	2mL	白细胞 (WBC) 浓度: $9.06 \times 10^9$ 个/L, U=2.5%; 红细胞 (RBC) 浓度: $4.20 \times 10^{12}$ 个/L, U=2.0%; 血小板 (PLT) 浓度: $233.6 \times 10^9$ 个/L, U=2.0%; 血红蛋白 (HGB) 浓度: 130.5g/L, U=1.5%
GBW09152	冷冻人血清中无机成分分析标准物质	Inorganic components in frozen human serum	2 × 2.5mL	Na, Cl, Mg, K, Ca, Fe, Cu, Zn, Se, U<5%
GBW09157	冰冻人血清中尿酸成分分析标准物质	Uric acid in frozen human serum	2 × 1mL	57.3 μg/mL, U=2.9%
GBW09169	冷冻人血清中尿酸成分分析标准物质 (患者)	Uric acid in frozen human serum	2 × 1mL	72.2 μg/g, U=2.6%
GBW09170	冰冻人血清肌酐成分分析标准物质	Creatinine in frozen human serum	2 × 1mL	8.10 μg/g, U=1.2%
GBW09171	冰冻人血清肌酐成分分析标准物质	Creatinine in frozen human serum	2 × 1mL	34.1 μg/g, U=1.1%
GBW09108-09110	冻干人尿中碘标准物质	Iodine in lyophilized human urine	3 × 5mL	(52.5 ± 0.8) μg/L; (87.4 ± 0.9) μg/L; (258 ± 10) μg/L;
GBW09115	冻干人尿中砷形态成分分析标准物质	Arsenic Species in Freeze-dry Human Urine	bottle	AsO <sub>3</sub> <sup>3-</sup> : (0.758 ± 0.016) n mol / bottle; Monomethylarsonic acid/一甲基砷: (1.03 ± 0.08) n mol / bottle; Dimethylarsinic acid/二甲基砷: (4.3 ± 0.3) n mol /bottle
GBW(E)090027	粉类化妆品铅成分分析标准物质	Lead in powder cosmetic	10g	16.1mg/kg, U=0.022%
GBW(E)090028	霜类化妆品铅成分分析标准物质	Lead in cream cosmetic	10g	31.0mg/kg, U=0.024%
★ GBW09305	霜类化妆品基质中重金属铅、砷元素成分分析标准物质	Pb, As in Cosmetic (Cream)	10g	Pb:(37.2 ± 0.8) μg/g; As:(9.0 ± 0.3) μg/g
GBW(E)090030	水类化妆品中甲醇成分分析标准物质	Methanol in lotion cosmetic	10mL	0.103%, U=0.008%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)090096	乳霜类化妆品中对羟基苯甲酸酯类(尼泊金酯类)成分分析标准物质	Parabens in cosmetic	2*15g	GBW(E)090096-1: 对羟基苯甲酸甲酯 ( methyl p-hydroxybenzoate ): (1945.8 ± 4.4) mg/kg; 对羟基苯甲酸丙酯 ( Propyl p-hydroxybenzoate ): (995.8 ± 4.8) mg/kg; GBW(E)090096-2: 对羟基苯甲酸乙酯 ( Ethyl p-hydroxybenzoate ): (980.1 ± 7.2) mg/kg; 对羟基苯甲酸丁酯 ( Butyl p-hydroxybenzoate ): (1013.8 ± 6.6) mg/kg
GBW09203b	胆固醇纯度标准物质	Cholesterol	0.3g	99.7% , U=0.1%
GBW09202	尿酸纯度标准物质	Uric acid	0.4g	99.8% , U=0.3%
GBW09201	尿素纯度标准物质	Urea	2g	99.9% , U=0.2%
BW3453	尿素氮溶液标准物质	Nitrogen content (urea) in water	20mL	1000mg/L, U=3%; 10mg/L, U=3%
GBW(E)100119	黄体酮纯度标准物质(孕酮)	Progesterone	100mg	99.2% , U=0.5%
GBW(E)100094	黄体酮甲醇溶液标准物质(孕酮)	Progesterone in methanol	1mL	10.0 μ g/mL, U=2%
GBW(E)130251	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	1.5mm <sup>2</sup> /s, U=0.2%, 同时给出动力学黏度
GBW(E)130252	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	3mm <sup>2</sup> /s, U=0.2%, 同时给出动力学黏度
GBW(E)130253	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	5mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度
GBW(E)130254	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	10mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度
GBW(E)130255	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	20mm <sup>2</sup> /s, U=0.4%, 同时给出动力学黏度
GBW(E)130256	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity(37℃, for blood flow measurement)	8mL	30mm <sup>2</sup> /s, U=0.5%, 同时给出动力学黏度
BW2050	37℃标准黏度液(血流变黏度标准液)	Standard Liquid of Viscosity—for blood flow measurement(38℃)	8mL	8.0mm <sup>2</sup> /s, U=0.3%, 同时给出动力学黏度
BW3620	4-甲基伞形酮纯度标准物质	4-Methylumbelliferyl	50mg	(99.8 ± 0.4)%



# 11. 食品 /Food

茶叶及烟草

Tea and Tobacco

果蔬及草药

Fruits, Vegetables and Herbs

粮食

Foodstuff

动物源制品

Animal Derived Products

白酒

Alcohol

食用油

Edible Oil

营养及功能成分

Nutritional and Functional Components

食品添加剂及限量物质

Food additives and Limited Components

食品包装残留有害物质

Residual Contaminants in Food Packaging Materials



## 茶叶及烟草 /Tea and Tobacco

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08514	烟草成份分析标准物质	Tobacco	25g	Ca: (3.00 ± 0.08)%; Mg: (0.51 ± 0.02)%; K: (2.39 ± 0.10)%; N: (1.72 ± 0.06)%; Cl: (0.77 ± 0.03)%; P: (0.229 ± 0.014)%; Mn: (93.9 ± 3.4) μg/g; Cu: (16.4 ± 2.4) μg/g; Zn: (28.6 ± 2.0) μg/g; Fe: (962 ± 60) μg/g; B: (22.0 ± 1.8) μg/g; nicotine: (1.72 ± 0.04)%; total sugar: (18.8 ± 0.8)%; reducing sugar: (17.2 ± 0.8)%
GBW08515	烟草成份分析标准物质	Tobacco	25g	Ca: (4.30 ± 0.14)%; Mg: (0.74 ± 0.04)%; K: (3.31 ± 0.12)%; N: (3.56 ± 0.10)%; Cl: (0.98 ± 0.04)%; P: (0.258 ± 0.015)%; Mn: (236 ± 12) μg/g; Cu: (17.4 ± 1.4) μg/g; Zn: (36.2 ± 3.0) μg/g; Fe: (966 ± 64) μg/g; B: (41.6 ± 2.25) μg/g; nicotine: (3.84 ± 0.10)%; total sugar: (1.8 ± 0.3)%

## 果蔬及草药 /Fruits, Vegetables and Herbs

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10014	生物成分分析标准物质——圆白菜	Cabbage	35g	As, Al, B, Ba, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Fe, Gd, Hg, I, K, La, Li, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pb, Pr, Rb, S, Se, Si, Sm, Sr, Th, U, Y, Yb, Zn, [Ti], [ash], [Nb], [Be], [Er], [Eu], [Ge], [Ho], [Lu], [Ti], [Tm], [Sb], [Sc], [Tb], [V]
GBW10015	生物成分分析标准物质——菠菜	Spinach	35g	Al, As, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Hg, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Se, Si, Sm, Sr, Tb, Th, Tm, U, V, Y, Yb, Zn, [Ti], [ash], [F], [Ge], [Ti], [Sc], [Hf], [Nb]
GBW10019	生物成分分析标准物质——苹果	Apple	35g	As, Al, B, Ba, Ca, Cd, Ce, Co, Cs, Cu, I, K, La, Li, Mg, Mn, Mo, N, Na, Ni, P, Pb, Pr, Rb, Sb, Si, Sm, Sr, Th, U, Y, Zn, [Dy], [Er], [Eu], Fe, Gd, [Hg], [Ho], [Cl], [S], [Se], [Ti], [Tm], [V], [Yb], [ash], [Be], [Bi], [Br], [Nd]
GBW10020	柑橘叶	Orange leaf	35g	As, B, Ba, Al, Ag, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Fe, Gd, Hg, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, P, Pd, Pr, Rb, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, [Eu], [F], [Ge], [Hf], [Ni], [灰分 (ash)]
GBW10021	豆角	Bean	35g	As, B, Ba, Al, Be, Bi, Br, Ca, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pd, Pr, Rb, S, Sb, Sc, Se, Sm, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, [Ag], [Cd], [F], [I], [Si], [Sn], [灰分 (ash)]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10022	蒜粉	Garlic powder	35g	As, B, Ba, Al, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Hg, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pb, Pr, Rb, S, Sb, Sc, Se, Sm, Sr, Tb, Th, Ti, Tl, U, V, Y, Zn, [Ag], [F], [Ge], [Hf], [Si], [Sn], [Tm], [Yb], [灰分 (ash)]
GBW10023	紫菜	Laver	35g	As, Ag, B, Ba, Al, Be, Bi, Br, Ca, Ce, Cd, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nb, Ni, P, Pb, Pr, Rb, S, Sb, Se, Si, Sm, Sr, Tb, Th, Tl, Tm, U, V, Y, Yb, Zn, [F], [Sc], [Sn], [Ti], [灰分 (ash)]
GBW10025	螺旋藻	Spirulina	12g	As, Ba, Al, Ag, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pd, Pr, Rb, S, Sb, Sc, Se, Sm, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, [B], [F], [Ge], [Hf], [Hg], [Si], [Sn], [灰分 (ash)]
GBW10026	花粉	Pollen	12g	As, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Hg, Ho, K, La, Li, Lu, Mg, Mn, Mo, N, Nd, Ni, P, Pd, Pr, Rb, S, Sb, Sc, Se, Sm, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, [Ag], [Al], [F], [Ge], [I], [Na], [Si], [灰分 (ash)]
GBW10027	人参	Ginseng	12g	B, Ba, Be, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Fe, Gd, Hg, Ho, K, La, Li, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pd, Pr, Rb, S, Se, Sm, Sr, Tb, Ti, Tl, U, V, Y, Yb, Zn, [Ag], [Al], [As], [Bi], [Br], [Eu], [F], [I], [Lu], [Sb], [Sc], [Si], [Sn], [Th], [Tm], [灰分 (ash)]
GBW10028	黄芪	Astragalus	35g	Al, As, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nd, Ni, P, Pd, Pr, Rb, S, Sb, Se, Sm, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, [Ag], [F], [Ge], [Hg], [Sc], [Si], [Sn], [灰分 (ash)]
GBW(E)100199	南瓜粉成分分析标准物质	Cushaw powder	25g	K:(14.9 ± 0.3)g/kg; Mg:(1.12 ± 0.03)g/kg; Ca:(1.30 ± 0.12)g/kg; Fe:(41.3 ± 3.4)mg/kg; Mn:(6.0 ± 0.3)mg/kg; Zn:(12.2 ± 1.0)mg/kg; Cu:(3.4 ± 0.3)mg/kg; Na:(754 ± 27)mg/kg;
GBW10047	胡萝卜	Carrot	35g	[Ag], [Al], As, B, Ba, Be, [Bi], [Br], Ca, Cd, Ce, [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, [I], K, La, Li, [Lu], Mg, Mn, Mo, [N], Na, Nb, Nd, Ni, P, Pb, Pr, Rb, [S], [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, Tb, Th, [Ti], Tl, Tm, U, [V], Y, Yb, Zn
GBW10048	芹菜	Celery	35g	[Ag], [Al], As, B, Ba, Be, [Bi], Br, Ca, Cd, Ce, [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, [I], K, La, Li, Lu, Mg, Mn, Mo, [N], Na, [Nb], Nd, Ni, P, Pb, Pr, Rb, [S], [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, Tb, Th, [Ti], Tl, Tm, U, V, Y, Yb, Zn

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10049	大葱	Green Chinese onion	35g	[Ag], [Al], As, B, Ba, Be, [Bi], Br, Ca, Cd, Ce, [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, [Ge], Hg, Ho, [I], K, La, Li, [Lu], Mg, Mn, Mo, [N], Na, [Nb], Nd, [Ni], P, Pb, Pr, Rb, S, [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, Tb, Th, [Ti], Tl, Tm, [U], [V], Y, Yb, Zn
GBW10052	绿茶	Green Tea	35g	[Ag], As, B, Ba, Be, Bi, Br, Ca, Cd, Ce [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, [Hg], Ho, [I], K, La, Li, Lu, Mg, Mn, Mo, [N], Na, [Nb], Nd, Ni, P, Pb, Pr, Rb, [S], [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, Tb, Th, [Ti], Tl, Tm, U, V, Y, Yb, Zn
GBW08521	紫菜中砷、铅、镉成分分析标准物质	As, Pb and Cd in Laver	18g	As: (41 ± 3) μg/g; Pb: (0.81 ± 0.03) μg/g; Cd: (5.2 ± 0.4) μg/g

## 粮食 /Foodstuff

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW10035	小麦粉 Pb、Cd、Cr 分析标准物质	Pb、Cd、Cr in wheat powder	30g	Pb: ( 1.63 ± 0.03 ) mg/kg; Cd: ( 0.074 ± 0.003 ) mg/kg; Cr: ( 0.095 ± 0.006 ) mg/kg
GBW10036	玉米粉 Pb、Cd、Cr 分析标准物质	Pb、Cd、Cr in corn powder	30g	Pb: ( 0.810 ± 0.022 ) mg/kg; Cd: ( 0.015 ± 0.005 ) mg/kg; Cr: ( 0.105 ± 0.006 ) mg/kg
GBW(E)100126	全麦粉粗蛋白质	Crude protein in whole wheat flour	80g	( 15.8 ± 0.3)%
GBW(E)100127	全麦粉粗脂肪	Crude fat in whole wheat flour	80g	( 1.83 ± 0.23)%
GBW(E)100128	全麦粉粗纤维素	Crude fibre in whole wheat flour	80g	( 1.9 ± 0.2)%
GBW10011	生物成分分析标准物质——小麦	Wheat flour	35g	Al, As, Ba, Ca, Cd, Ce, Cl, Cr, Cu, Fe, K, La, Li, N, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pr, S, Sm, Se, Sr, Yb, Zn, Rb, [Ti], [Sc], [Si], [Tm], [Tb], [Th], [I], [ash], [Er], [Eu], [Gd], [B], [Be], [Nb], [Ge], [Hf], [Hg], [Ho], [I], [Lu], [Sb], [Bi], [Br], [Co], [Cs], [Dy], [V], [Y], [U]
GBW10012	生物成分分析标准物质——玉米	Corn flour	35g	Al, As, B, Ba, Be, Bi, Br, Ca, Ce, Cl, Cs, Cu, Dy, Er, F, Fe, Gd, Hf, Ho, K, Lu, La, Mg, Mn, Mo, Nd, N, Ni, P, Yb, Zn, Se, Si, Sm, Sr, Tb, Th, Ti, V, Y, Pb, Pr, Rb, S, Sc, [Na], [ash], [Ge], [Hg], [Ti], [Tm], [U], [Co], [Cr], [Eu], [Sb], [Li], [I], [Nb]
GBW10013	生物成分分析标准物质——黄豆	Soybean flour	35g	As, Ba, B, Be, Ca, Ce, Cl, Co, Cs, Cr, Cu, Dy, Er, Eu, Fe, Gd, K, Li, La, Mg, Mo, Mn, Na, N, Nd, Ni, P, Pb, Pr, Rb, S, Sc, Se, Si, Sm, Th, Y, Yb, Zn, Sr, Tb, [Br], [Cd], [Na], [Sb], [Ti], [Tm], [U], [V], [ash], [Ge], [Hg], [Ho], [Lu], [Al], [Nb], [I], [Bi]

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10054	脱脂大豆粉中钾、镁、钙、铁、锌、锰、铜、钠成分分析标准物质	K, Mg, Ca, Fe, Zn, Mn, Cu, Na in defatted soybean powder	40g	K: (24.20 ± 0.39)g/kg; Mg: (2.74 ± 0.11)g/kg; Ca: (1.71 ± 0.06)g/kg; Fe: (154 ± 4)mg/kg; Mn: (35.9 ± 1.7)mg/kg; Zn: (44.9 ± 0.8)mg/kg; Cu: (14.6 ± 0.4)mg/kg; [Na: 8mg/kg]
GBW10055	全脂大豆粉中钙、铁、锌、铜成分分析标准物质	Ca, Fe, Zn, Cu in whole fat soybean powder	30g	Ca: (1.54 ± 0.05)mg/kg; Fe: (53.2 ± 1.5)mg/kg; Zn: (36.3 ± 0.9)mg/kg; Cu: (10.1 ± 0.3)mg/kg
GBW(E)080684	大米粉成分分析标准物质	Rice flour	30g	As, Ca, Cd, Cu, Fe, K, Pb, Mg, Mn, Na, Se, Zn, [N], [P]
GBW(E)100194	大米粉成分分析标准物质	Rice powder	30g	K: (1.05 ± 0.03)g/kg; Mg: (0.216 ± 0.013)g/kg; Ca: (58.5 ± 3.3)mg/kg; Fe: (12.2 ± 0.9)mg/kg; Mn: (8.0 ± 0.6)mg/kg; Zn: (15.4 ± 0.7)mg/kg; Cu: (2.2 ± 0.2)mg/kg; [Na: 10.1mg/kg]
GBW(E)100195	小麦粉成分分析标准物质	Wheat powder	30g	K: (2.34 ± 0.07)g/kg; Mg: (0.70 ± 0.05)g/kg; Ca: (0.324 ± 0.007)g/kg; Fe: (23.2 ± 2.6)mg/kg; Mn: (16.7 ± 0.9)mg/kg; Zn: (15.9 ± 0.8)mg/kg; Cu: (3.8 ± 0.3)mg/kg; [Na: 10.8mg/kg]
GBW(E)100196	玉米粉成分分析标准物质	Corn powder	30g	K: (1.069 ± 0.005)g/kg; Mg: (140 ± 7)mg/kg; Ca: (44.7 ± 2.2)mg/kg; Fe: (18.9 ± 1.0)mg/kg; Mn: (1.64 ± 0.19)mg/kg; Zn: (4.78 ± 0.16)mg/kg; Cu: (0.85 ± 0.09)mg/kg; [Na: 7.0mg/kg]
GBW10043	辽宁大米	Rice from Liaoning	35g	Al, As, B, Ba, Be, [Bi], [Br], Ca, Cd, [Ce], [Cl], Co, Cr, Cs, Cu, [Dy], Er, Eu, Fe, Gd, [Ge], Hg, Ho, [I], K, [La], Li, [Lu], Mg, Mn, Mo, [N], Na, [Nb], [Nd], Ni, P, Pb, Pr, Rb, [S], [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, [Tb], [Th], [Ti], [Tl], [Tm], [U], [V], Y, [Yb], Zn
GBW10044	四川大米	Rice from Sichuan	35g	[Al], As, B, Ba, Be, [Bi], [Br], Ca, Cd, Ce, [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, [Ge], [Hg], Ho, K, La, Li, [Lu], Mg, Mn, Mo, [N], Na, [Nb], Nd, Ni, Pb, Pr, Rb, [S], [Sb], [Sc], [Se], [Si], Sm, [Sn], Sr, [Tb], Th, [Ti], Tl, Tm, [U], [V], Y, Yb, Zn
GBW10045	湖南大米	Rice from Hunan	35g	[Ag], [Al], As, B, Ba, Be, Bi, [Br], Ca, Cd, Ce, [Cl], Co, [Cr], Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, [I], K, [La], Li, Mg, Mn, Mo, [N], [Na], [Nb], [Nd], Ni, P, Pb, [Pr], Rb, [S], [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, [Tb], [Th], [Ti], Tl, [Tm], [U], [V], Y, Yb, Zn

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10046	河南小麦	Wheat powder from Henan	35g	[Ag], [Al], [As], B, Ba, Be, [Bi], [Br], Ca, Cd, Ce, [Cl], Co, [Cr], Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, [Hg], Ho, K, La, Li, [Lu], Mg, Mn, Mo, [N], Na, [Nb], Nd, [Ni], P, Pb Pr, Rb, S, [Sb], [Sc], Se, [Si], Sm, [Sn], Sr, Tb, [Th], [Ti], [Tl], Tm, [U], [V], Y, Yb, Zn
GBW(E)100009	水稻粉营养成分分析标准物质	Nutritious compositions in rice flour	10g	粗蛋白质 (protein), 粗淀粉 (starch), 氨基酸总量 (total amino acid) 天门冬氨酸 (aspartic acid), 苏氨酸 (threonine), 丝氨酸 (serine), 谷氨酸 (glutamic acid), 异亮氨酸 (isoleucine), 亮氨酸 (leucine), 酪氨酸 (tyrosine), 苯丙氨酸 (phenylalanine), 赖氨酸 (lysine), 组氨酸 (histidine), 精氨酸 (arginine), 脯氨酸 (proline), 甘氨酸 (glycine), 丙氨酸 (alanine), 蛋氨酸 (methionine), 粗脂肪, 缬氨酸
GBW(E)08503a	小麦粉中稀土元素成分分析标准物质	Rare Earth Elements in wheat flour	20g	Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Tb, Tm, Y, Yb

## 动物源制品 /Animal Derived Products

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08552	猪肉成分分析标准物质	Pork muscle	20g	K, Na, P, Ca, Fe, Cu, Zn, Mg, Rb, Se, Mn, N, Cl, Br, [Ba], [Mo], [Co], [Sr], [Cr], [Pb], [Cs], [Hg]
GBW10018	生物成分分析标准物质——鸡肉	Chicken muscle	35g	Mn, Mo, N, P, Pb, S, Al, As, B, Ba, Bi, Br, Ca, Ce, Cl, Cr, Cs, Cu, Dy, Fe, Hg, K, La, Li, Mg, Na, Nd, Ni, Pr, Rb, Si, Sm, Sr, Tb, Y, Zn, [ash], [Lu], [Sc], [Th], [Tl], [Tm], [U], [V], [Be], [Cd], [Co], [Er], [Eu], [Gd], [Ge], [Ho], [I], [Nb], [Se], [Yb], [Tb], [Cr]
GBW(E)100197	牛肉粉成分分析标准物质	Bovine muscle powder	25g	K:(8.32 ± 0.26)g/kg;Mg:(628 ± 15)mg/kg;Ca:(370 ± 21)mg/kg;Fe:(55.5 ± 2.5)mg/kg;Mn:(0.48 ± 0.05)mg/kg;Zn:(119 ± 4)mg/kg;Cu:(1.6 ± 0.2)mg/kg;Na:(4.71 ± 0.22)g/kg;
GBW(E)100198	蛋黄粉成分分析标准物质	Egg yolk powder	25g	K:(2.63 ± 0.09)g/kg;Mg:(307 ± 20)mg/kg;Ca:(2.83 ± 0.37)g/kg;Fe:(123 ± 11)mg/kg;Mn:(1.76 ± 6)mg/kg;Zn:(76 ± 1.0)mg/kg;Cu:(3.0 ± 0.2)mg/kg;Na:(1.73 ± 0.13)g/kg;
GBW10024	扇贝	Scallop	12g	As, B, Ba, Al, Be, Bi, Br, Ca, Ce, Cd, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Hg, Ho, I, K, La, Li, Lu, Mg, Mn, Mo, N, Na, Nb, Ni, P, Pr, Rb, S, Se, Sm, Sr, Tb, Tl, Tm, U, V, Y, Yb, Zn, [Ag], [F], [Ge], [Pb], [Sb], [Sc], [Si], [Sn], [Th], [Ti], [灰分 (ash)]
BW3709	三文鱼中 13 种有机氯农药标准物质	13 organochlorinated pesticides in salmon tissue	10g	DDT, DDE, 666, 六氯苯 (hexachlorobenzene), 氯丹 (chlordane): (0-10) μ g/kg, U<40%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10040	三文鱼中 7 种 PCBs 标准物质	7 PCBs in salmon tissue	10g	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (0-10) $\mu\text{g}/\text{kg}$ , $U < 11\%$
BW3710	金枪鱼中 18 种有机氯农药标准物质	18 organochlorinated pesticides in tuna tissue	5g	DDT, DDE, 666, 六氯苯 (hexachlorobenzene), 氯丹 (chlordane): (0-110) $\mu\text{g}/\text{kg}$ , $U < 12\%$
BW3711	金枪鱼中 14 种有机氯农药标准物质	14 organochlorinated pesticides in tuna tissue	5g	DDT, DDE, 666, 六氯苯 (hexachlorobenzene), 氯丹 (chlordane): (0-10) $\mu\text{g}/\text{kg}$ , $U < 10\%$
GBW10041	金枪鱼中 7 种 PCBs 标准物质	7 PCBs in tuna tissue	5g	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (30-100) $\mu\text{g}/\text{kg}$ , $U < 6\%$
BW3717	金枪鱼中 7 种 PCBs(Arochlor 添加) 标准物质	7 PCBs in tuna tissue (Arochlor fortified)	5g	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (10-100) $\mu\text{g}/\text{kg}$ , $U < 8\%$
BW3708	鱼油中 16 种有机氯农药标准物质	16 organochlorinated pesticides in salmon oil	1mL	DDT, DDE, 666, 六氯苯 (hexachlorobenzene), 氯丹 (chlordane): (0-30) $\mu\text{g}/\text{kg}$ , $U < 16\%$
GBW10042	鱼油中 7 种 PCBs 标准物质	7 PCBs in salmon oil	1mL	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (1-9) $\mu\text{g}/\text{kg}$ , $U \leq 8\%$
GBW(E)100129	鲱鱼中有机氯农药 (8 种 OCPs)	8 OCPs in Spanish Mackerel (Fortified with Organochlorine Pesticide)	5g	甲体六六六 ( $\alpha$ -BHC), 乙体六六六 ( $\beta$ -BHC), 丙体六六六 ( $\gamma$ -BHC), 丁体六六六 ( $\delta$ -BHC), pp'-DDE, pp'-DDD, pp'-DDT, op'-DDT, $U < 8\%$
GBW(E)100130	海鲈鱼中多环芳烃 (6 种 PAHs) 标准物质	6 PAHs in Bass (Fortified with Polycyclic Aromatic Hydrocarbons)	5g	苯并 (b) 荧蒽 (Benzo(b)fluoranthene)、苯并 (k) 荧蒽 (Benzo(k)fluoranthene)、苯并 (g,h,i) 花 (Benzo(ghi)perylene)、苯并 (a) 芘 (Benzo(a)pyrene)、荧蒽 (Fluoranthene)、茚并 (1, 2, 3-cd) 芘 (Indeno(1, 2, 3-cd)pyrene), $U < 19\%$
GBW(E)100131	鳕鱼中指示性多氯联苯 (20 种 PCBs) 标准物质	20 PCBs in Cod (Fortified with Arochlor)	5g	PCB18, PCB28, PCB33, PCB52, PCB44, PCB70, PCB101, PCB118, PCB105, PCB153, PCB138, PCB128, PCB187, PCB180, PCB170, PCB199, PCB195, PCB194, PCB206, PCB209, $U < 8\%$
GBW10029	鱼肉中总汞与甲基汞成分分析标准物质	Total mercury and methylmercury in fish tissue	5g	总 Hg (Total Hg): (0.85 $\pm$ 0.03) $\mu\text{g}/\text{g}$ ; 甲基汞 (MeHg, calculated as Hg): (0.84 $\pm$ 0.03) $\mu\text{g}/\text{g}$
★ GBW10068	牡蛎中无机元素及有机锡 (添加) 形态标准物质	Elements and Organotins in Oyster Tissue	10g	Na:(1.01 $\pm$ 0.03) $\times 10^{-2}$ ; K:(0.97 $\pm$ 0.02) $\times 10^{-2}$ ; Ca:(4.02 $\pm$ 0.13) $\times 10^{-3}$ ; Mg:(1.84 $\pm$ 0.04) $\times 10^{-3}$ ; Zn:(982 $\pm$ 25) $\times 10^{-6}$ ; Fe:(467 $\pm$ 12) $\times 10^{-6}$ ; Cu:(269 $\pm$ 6) $\times 10^{-6}$ ; Mn:(35.8 $\pm$ 0.7) $\times 10^{-6}$ ; Cd:(18.7 $\pm$ 0.5) $\times 10^{-6}$ ; As:(12.9 $\pm$ 0.6) $\times 10^{-6}$ ; Ni:(4.22 $\pm$ 0.22) $\times 10^{-6}$ ; Se:(3.88 $\pm$ 0.28) $\times 10^{-6}$ ; Sn:(3.22 $\pm$ 0.12) $\times 10^{-6}$ ; Ba:(2.93 $\pm$ 0.16) $\times 10^{-6}$ ; Pb:(1.26 $\pm$ 0.06) $\times 10^{-6}$ ; Hg:(0.053 $\pm$ 0.006) $\times 10^{-6}$ 参考值: 二丁基锡: (1.28 $\pm$ 0.34) $\times 10^{-6}$ ; 三丁基锡: (1.85 $\pm$ 0.34) $\times 10^{-6}$ ; 三苯基锡: 3.07 $\times 10^{-6}$ ; 一丁基锡: 0.52 $\times 10^{-6}$ ; Cl: 1.70%; Br: 105 $\times 10^{-6}$



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10017	生物成分分析标准物质——奶粉	Milk powder	35g	Rb, S, Al, As, Cl, Y, Zn, Co, Cr, Cs, Cu, Fe, I, K, B, Ba, Br, Ca, Mg, Mn, Mo, N, Na, P, Pb, Se, Sr, [Tb], [Th], [Tl], [U], [V], [ash], [Ce], [Pr], [Dy], [Er], [Eu], [Ho], [La], [Li], [Hg], [Bi], [Nb], [Nd], [Ni], [Sb], [Sc], [Sm]
GBW08509a	脱脂奶粉成份分析标准物质	Nonfat milk powder	50g	Se: (0.17 ± 0.03) μg/g; Zn: (47.2 ± 1.0) μg/g; Fe(3.26 ± 0.20) μg/g; As: (0.010) μg/g; K: (16.4 ± 0.4)mg/g; Na: (5.15 ± 0.17) mg/g; Ca: (12.8 ± 0.2)mg/g; Cu: (0.35 ± 0.03) μg/g; Mn: (0.29 ± 0.02) μg/g; Pb: (0.024 ± 0.010) μg/g; Mg(1.31 ± 0.06) mg/g; N: (58.2 ± 1.0)mg/g; P: (10.4 ± 0.3) mg/g; Cl(10.3 ± 0.3)mg/g
GBW10050	大虾	Prawn	12g	[Ag], [Al], [As], B, Ba, Be, [Bi], Br, Ca, Cd, Ce, [Cl], Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Gd, Ge, Hg, Ho, [I], K, La, Li, Lu, Mg, Mn, Mo, [N], Na, Nb, Nd, [Ni], P, Pb, Pr, Rb, [S], [Sb], [Sc], [Se], [Si], Sm, [Sn], Sr, Tb, Th, [Ti], Tl, Tm, U, V, Y, Yb, Zn
GBW10051	猪肝	Pork liver	35g	[Al], As, [B], [Ba], Be, [Bi], [Br], [Ca], Cd, [Ce], [Cl], Co, Cr, Cs, Cu, [Dy], [Er], [Eu], Fe, [Gd], [Ge], Hg, [Ho], [I], K, [La], [Li], Mg, Mn, Mo, [N], Na, [Nd], [Ni], P, Pb, [Pr], Rb, S, [Sb], [Sc], Se, [Sm], Sr, [Tb], [Th], Tl, U, [V], [Y], [Yb], Zn
BW3832-1	奶粉中蛋白质标准物质	Protein in milk powder	1g	17.44%, U=6%
BW3832-2	奶粉中蛋白质标准物质	Protein in milk powder	1g	22.84%, U=6%
BW3832-3	奶粉中蛋白质标准物质	Protein in milk powder	1g	34.63%, U=6%
★ BW3648	乳清蛋白粉总氮和蛋白质含量标准物质	Reference material for the protein content of whey protein powder	150	总氮 5.5%, U=3%; 蛋白质 34.4%,U=3%
BW3616	奶粉中三聚氰胺标准物质	Melamine in milk powder	20g	(0.47 ± 0.12)mg/Kg
BW3617	奶粉中三聚氰胺标准物质	Melamine in milk powder	20g	(3.4 ± 0.7)mg/Kg
BW3618	奶粉中三聚氰胺标准物质	Melamine in milk powder	20g	(16.3 ± 2.6)mg/Kg
BW3619	奶粉中三聚氰胺标准物质	Melamine in milk powder	20g	(82.2 ± 4.0)mg/Kg
GBW10037	婴幼儿配方奶粉中烟酰胺成分分析标准物质	Nicotinamide in infant formula	30g	烟酰胺 (niacinamide) 65.3mg/kg, U=5.6%
GBW(E)100227	婴幼儿配方奶粉中烟酸、维生素 B1、维生素 B2、维生素 B6 及 10 种无机元素成分标准物质	Vitamin B1, B2, B6, nicotinic acid and 10 Inorganic elements in Infant Formula	35g	烟酸 ( Nicotinic acid, Vitamin B3 ) : (39.8 ± 1.2 )mg/kg; 维生素 B1 ( Vitamin B1 ): (6.60 ± 0.46)mg/kg; 维生素 B2( Vitamin B2 ): (20.2 ± 1.2)mg/kg; 维生素 B6( Vitamin B6 ): (4.71 ± 0.31) mg/kg; Ca: (4.37 ± 0.24) mg/g; Cu (4.5 ± 0.2) mg/kg Fe: (78.7 ± 3.06) mg/kg; K: (6.11 ± 0.12) mg/g; Mg: (849 ± 13)mg/kg; Mn: (1.06 ± 0.06)mg/kg; Na: (1.95 ± 0.04) mg/g; Zn: (58.1 ± 2.6)mg/kg; P: (2.98 ± 0.07) mg/g; Se: (1.23 ± 0.12) mg/kg
GBW10080	蜂蜜中 5-羟甲基糠醛成分分析标准物质	5-Hydroxymethylfurfural in honey	30g	(11 ± 1)mg/kg
GBW10081	蜂蜜中 6-羟甲基糠醛成分分析标准物质	6-Hydroxymethylfurfural in honey	30g	(27.2 ± 2)mg/kg
GBW10082	蜂蜜中 7-羟甲基糠醛成分分析标准物质	7-Hydroxymethylfurfural in honey	30g	(67.3 ± 4.3)mg/kg
GBW10030	蛋黄粉中胆固醇标准物质	Cholesterol in egg yolk powder	30g	22.43 g/kg, U = 0.90 g/kg

## 白酒 /Alcohol

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100012 -100013	白酒色谱分析标准物质	Reference materials for the chromatographic analysis of alcohol	GBW(E) 100012: 5mL; GBW(E) 100013: 2mL	异戊酯 (isoamyl ester), 乳酸乙酯 (ethyl lactate), 己酸乙酯 (ethyl hexanoate), 异丁醇 (iso-Butyl alcohol), 乙酸正丁酯 (butyl acetate), 甲醇 (methanol), 乙酸乙酯 (ethyl acetate), [正丁醇 (n-butanol)], [正丙醇 (n-propyl alcohol)], [丁酸乙酯 (ethyl butyrate)], [仲丁醇 (sec-butanol)]
GBW(E)080647	乙醇水溶液中甲醇标准物质	Methanol in alcohol/water( 50%/50%)	2ml	1.00mg/mL, U=3%
GBW(E)080648	乙醇水溶液中异丁醇和异戊醇标准物质	Isobutanol and isopentanol in alcohol/water( 50%/50%)	2ml	1.00mg/mL, U=3%
GBW(E)080649	乙醇水溶液中甲醇、异丁醇和异戊醇标准物质	Methanol, isobutanol and isopentanol in alcohol/water( 50%/50%)	2ml	1.00mg/mL, U=3%
★ GBW(E)082065	β-苯乙醇乙醇水溶液标准物质	β-Phenethyl Alcohol in Alcohol-Water	2ml	0.50mg/mL, U=0.02mg/mL
★ GBW(E)082066	糠醛乙醇水溶液标准物质	Furfural in Alcohol-Water	2ml	0.50mg/mL, U=0.02mg/mL
★ GBW(E)082067	丙酸乙酯、乳酸乙酯和己酸乙酯乙醇水溶液标准物质	Ethyl Propionate, Ethyl Lactate and Ethyl Hexanoate in Alcohol-Water	2ml	丙酸乙酯, 0.50mg/mL, U=0.02mg/mL; 乳酸乙酯, 2.0mg/mL, U=0.1mg/mL; 己酸乙酯, 3.0mg/mL, U=0.1mg/mL

## 食用油 /Edible Oil

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100120	大豆油脂脂肪酸成分分析标准物质	Fatty acid of soya bean oil	2mL	棕榈酸 (C16:0): 11.0% ± 0.8%, 硬脂酸 (C18:0): 4.5% ± 0.6%, 油酸 (C18:1): 20.7% ± 1.0%, 亚油酸 (C18:2): 54.2% ± 2.4%, 亚麻酸 (C18:3): 8.9% ± 1.8%
GBW(E)100121	菜籽油脂脂肪酸成分分析标准物质	Fatty acid of colaz oil	2mL	棕榈酸 (C16:0): 8.9% ± 0.8%, 硬脂酸 (C18:0): 2.8% ± 0.2%, 油酸 (C18:1): 22.3% ± 1.0%, 亚油酸 (C18:2): 40.1% ± 2.2%, 亚麻酸 (C18:3): 9.2% ± 0.8%, 花生酸 (C20:0): 0.5% ± 0.1%, 鳕烯酸 (C20:1): 5.1% ± 0.4%, 芥酸 (C22:1): 10.0% ± 1.6%
GBW(E)100122	花生油脂脂肪酸成分分析标准物质	Fatty acid of peanut oil	2mL	棕榈酸 (C16:0): 11.0% ± 0.6%, 硬脂酸 (C18:0): 3.5% ± 0.8%, 油酸 (C18:1): 43.7% ± 1.0%, 亚油酸 (C18:2): 35.0% ± 0.6%, 花生酸 (C20:0): 1.6% ± 0.2%, 鳕烯酸 (C20:1): 0.9% ± 0.1%, 山萘酸 (C22:0): 2.8% ± 0.5%, 二十四碳烷酸 (C24:0): 1.2% ± 0.4%
GBW(E)100123	葵花籽油脂脂肪酸成分分析标准物质	Fatty acid of sunflower oil	2mL	棕榈酸 (C16:0): 6.1% ± 0.4%, 硬脂酸 (C18:0): 5.6% ± 0.5%, 油酸 (C18:1): 24.0% ± 1.4%, 亚油酸 (C18:2): 62.2% ± 1.5%, 亚麻酸 (C18:3): 1.0% ± 0.7%, 山萘酸 (C22:0): 0.8% ± 0.2%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100124	玉米油脂脂肪酸成分分析标准物质	Fatty acid of corn oil	2mL	棕榈酸 (C16:0): 12.4% ± 0.8%, 硬脂酸 (C18:0): 1.8% ± 0.3%, 油酸 (C18:1): 29.1% ± 1.3%, 亚油酸 (C18:2): 55.1% ± 1.5%, 亚麻酸 (C18:3): 0.9% ± 0.6%, 花生酸 (C20:0): 0.4% ± 0.2%
GBW(E)100125	芝麻油脂脂肪酸成分分析标准物质	Fatty acid of sesame oil	2mL	棕榈酸 (C16:0): 9.5% ± 0.6%, 硬脂酸 (C18:0): 5.2% ± 1.0%, 油酸 (C18:1): 39.0% ± 0.7%, 亚油酸 (C18:2): 44.9% ± 1.0%, 花生酸 (C20:0): 0.6% ± 0.2%
BW3599	六号溶剂	#6 slovent	4mL	(10.0 ± 0.5)mg/mL

## 营养及功能成分 /Nutritional and Functional Components

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW10006-10008	食用盐中碘成分分析标准物质	Iodine in refined salt	11g × 3	(12.5 ± 2.0) × 10 <sup>-6</sup> g/g; (24.5 ± 2.0) × 10 <sup>-6</sup> g/g; (32.0 ± 3.0) × 10 <sup>-6</sup> g/g;
BW3594	膳食纤维标准物质	Total dietary fibre	25g	71.4%, U=3.0%
GBW09502	灵芝中锗成分分析标准物质	Germanium in ganoderma lucidum	10g	(0.38 ± 0.08) × 10 <sup>-6</sup> g/g
GBW(E)100063	咖啡因标准物质	Caffeine	0.1g	99.8%, U=0.2%
GBW(E)100037	褪黑素纯度标准物质	Melatonin	50mg	99.8%, U=0.3%
GBW(E)100038	染料木素纯度标准物质	Genistein	10mg	99.8%, U=0.3%
GBW(E)100039	大豆黄酮纯度标准物质	Daidzein	10mg	99.8%, U=0.3%
GBW(E)100047	大豆苷	Daidzein	10mg	99.13%, U=0.16%
GBW(E)100048	黄豆苷	Glycitein	2mg	99.55%, U=0.10%
GBW(E)100049	染料木苷	Genistein	10mg	99.42%, U=0.10%
GBW(E)090057	芸香苷	Rutin	10mg	99.79%, U=0.30%
GBW(E)090058	梔子苷	Gardenoside	10mg	99.82%, U= 0.10%
GBW(E)090059	盐酸麻黄碱	Ephedrine hydrochloride	30mg	99.8%, U=0.8%
GBW(E)100190	可可碱纯度标准物质	Purity of Theobromine	0.2g	99.7%, U=0.4%
GBW(E)090092	大黄素纯度标准物质	Purity of emodin	50mg	98.6%, U=0.6%
GBW(E)090093	紫杉醇纯度标准物质	Purity of paclitaxel	100mg	99.6%, U=1.2%
GBW(E)090094	人参皂苷 Rg1 纯度标准物质	Purity of ginsenoside Rg1	20mg	99.6%, U=0.6%
GBW(E)090095	人参皂苷 Rb1 纯度标准物质	Purity of ginsenoside Rb1	100mg	99.1%, U=0.6%
★ GBW(E)100247	阿魏酸纯度标准物质	Purity of Ferulic acid	0.1g	99.88%, U=0.18%
★ GBW(E)100248	芹菜素纯度标准物质	Purity of Apigenin	0.1g	99.07%, U=0.35%
★ GBW(E)100249	柯因纯度标准物质	Purity of Chrysin	0.1g	99.54%, U=0.46%
★ GBW(E)100250	10-羟基癸烯酸纯度标准物质	Purity of 10-hydroxydec-2-enoic acid	0.1g	99.81%, U=0.20%
GBW(E)100062	十七种氨基酸混合溶液标准物质 (天氨酸、异亮氨酸、苏氨酸、亮氨酸、丝氨酸、酪氨酸、谷氨酸、苯丙氨酸、甘氨酸、盐酸赖氨酸、丙氨酸、组氨酸、胱氨酸、精氨酸、缬氨酸、脯氨酸、甲硫氨酸)	17 amino acid mixture in 0.1mol/LHCl	1mL	1 ~ 3mmol/L, U<0.1mmol/L
GBW(E)100050	苏氨酸纯度标准物质	Threonine	0.2g	99.2%, U=1.5%
GBW(E)100051	丝氨酸纯度标准物质	Serine	0.2g	99.6%, U=1.5%
GBW(E)100052	谷氨酸纯度标准物质	Glutamic acid	0.2g	98.2%, U=1.5%
GBW(E)100053	甘氨酸纯度标准物质	Glycine	0.2g	98.8%, U=1.5%
GBW(E)100054	丙氨酸纯度标准物质	Alanine	0.2g	99.4%, U=1.5%
GBW(E)100055	缬氨酸纯度标准物质	Valine	0.2g	99.4%, U=1.5%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100056	甲硫氨酸纯度标准物质	Methionine	0.2g	98.6%, U=1.5%
GBW(E)100057	异亮氨酸纯度标准物质	Isoleucine	0.2g	99.4%, U=1.5%
GBW(E)100058	亮氨酸纯度标准物质	Leucine	0.2g	99.5%, U=1.5%
GBW(E)100059	酪氨酸纯度标准物质	Tyrosine	0.2g	99.4%, U=1.5%
GBW(E)100060	盐酸赖氨酸纯度标准物质	Lysine hydrochloride	0.2g	99.2%, U=1.5%
GBW(E)100061	苯丙氨酸纯度标准物质	Phenylalanine	0.2g	99.9%, U=1.5%
GBW(E)100080	天冬氨酸纯度标准物质	Aspartic acid	0.2g	99.1%, U=1.6%
GBW(E)100081	胱氨酸纯度标准物质	Cystine	0.2g	98.3%, U=2.1%
GBW(E)100082	组氨酸纯度标准物质	Histidine	0.2g	99.5%, U=2.5%
GBW(E)100083	精氨酸纯度标准物质	Arginine	0.2g	99.7%, U=2.0%
GBW(E)100084	脯氨酸纯度标准物质	Proline	0.2g	99.0%, U=1.5%
GBW10038	烟酰胺纯度标准物质	Niacinamide	100mg	99.8%, U=0.4%
GBW(E)100184	烟酸 ( 维生素 B3) 纯度标准物质	Purity of nicotinic acid(Vitamin B3)	50mg	99.9%, U=0.3%
GBW(E)100183	维生素 B6 ( 盐酸吡哆醇 ) 纯度标准物质	Purity of pyridoxine hydrochloride(Vitamin B6)	50mg	99.9%, U=0.4%
★ GBW(E)100271	盐酸吡哆醇纯度标准物质	Purity of pyridoxine hydrochloride	50mg	99.70%, U=0.30%
BW3600	盐酸硫胺 ( 维生素 B1) 纯度标准物质	Thiamine hydrochloride	50mg	99.6%, U=0.9%
BW3601	核黄素 ( 维生素 B2) 纯度标准物质	Riboflavin	100mg	99.7%, U=0.2%
BW3602	泛酸钙 ( 维生素 B5) 纯度标准物质	Calcium pantothenate	100mg	99.6%, U=0.2%
BW3603	氰钴胺 ( 维生素 B12) 纯度标准物质	Cyanocobalamin	100mg	99.0%, U=0.8%
★ GBW(E)100265	叶酸纯度标准物质	Purity of Folic Acid	20mg	90.4%, U=1.1% ( 扣除结晶水含量后 )
★ GBW(E)100266	维生素 D2 纯度标准物质	Purity of Vitamin D2	20mg	98.1%, U=1.0%
★ GBW(E)100267	维生素 D3 纯度标准物质	Purity of Vitamin D3	20mg	99.6%, U=0.6%
★ GBW(E)100273	复合维生素成分标准物质	Multi-vitamin powder	1g	盐酸硫胺 (Thiamine hydrochloride):(1.01 ± 0.08)mg/g; 核黄素 (Riboflavin):(1.24 ± 0.10)mg/g; 泛酸钙 (Calcium pantothenate):(8.83 ± 0.57) mg/g; 盐酸吡哆醇 (pyridoxine hydrochloride):(1.80 ± 0.13)mg/g
BW3604	复合维生素成分标准物质	Multi-vitamin powder	1g	盐酸硫胺 (Thiamine hydrochloride):(1.01 ± 0.08)mg/g; 核黄素 (Riboflavin):(1.24 ± 0.10)mg/g; 泛酸钙 (Calcium pantothenate):(8.83 ± 0.57) mg/g; 盐酸吡哆醇 (pyridoxine hydrochloride):(1.80 ± 0.13)mg/g
GBW(E)100228	多维元素片中烟酰胺、维生素 B1、维生素 B2、维生素 B6 及 10 种无机元素成分标准物质	Vitamin B1 , B2, B6, nicotinic acid and 10 Inorganic elements in Infant Formula	35g	烟酰胺 ( Niacinamide ) : ( 9.89 ± 0.18 ) mg/g; 维生素 B1 ( Vitamin B1 ) : ( 2.76 ± 0.11 ) mg/g; 维生素 B2 ( Vitamin B2 ) : ( 4.28 ± 0.17 ) mg/g; 维生素 B6 ( Vitamin B6 ) : ( 0.30 ± 0.02 ) mg/g; Ca : ( 92.7 ± 2.7 ) mg/g; Cu : ( 675 ± 11 ) mg/kg; Fe : ( 7.24 ± 0.44 ) mg/g; K : ( 7.10 ± 0.22 ) mg/g; Mg : ( 1.10 ± 0.05 ) mg/g; Mn : ( 613 ± 28 ) mg/kg; Na : ( 1.13 ± 0.04 ) mg/g; Zn : ( 353 ± 18 ) mg/kg; P : ( 6.51 ± 1.27 ) mg/g; Se : ( 146 ± 12 ) mg/kg
GBW(E)050004	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 4320, U=7.6%
GBW(E)050005	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 12600, U=7.8%
GBW(E)050006	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 60600, U=7.6%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)050007	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 110000, U=7.8%
GBW(E)050008	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 289000, U=7.8%
GBW(E)050009	葡聚糖分子量标准物质	Dextran(narrow molecular weight distribution)	0.2g	Mw: 521000, U=7.6%
★ GBW(E)100142	十二(烷)酸纯度标准物质	Purity of lauric acid	100mg	99.60%,U=1.40%
★ GBW(E)100143	十六(烷)酸纯度标准物质	Purity of palmitic acid	100mg	99.30%,U=1.00%
BW3613	硬脂酸纯度标准物质	Purity of stearic Acid	100mg	99.7%,U=0.5%
BW3614	反式油酸纯度标准物质	Purity of elaidic Acid	100mg	99.4%,U=0.5%
BW3639	十三(烷)酸纯度标准物质	Purity of tridecanoic Acid	100mg	99.5%,U=0.4%
BW3640	十四(烷)酸纯度标准物质	Purity of tetradecanoic Acid	100mg	99.6%,U=0.4%
BW3641	十七(烷)酸纯度标准物质	Purity of heptadecanoic Acid	100mg	99.4%,U=0.3%
BW3642	二十(烷)酸纯度标准物质	Purity of eicosanoic Acid	100mg	99.3%,U=0.3%
BW3643	二十二(烷)酸纯度标准物质	Purity of docosanoic Acid	100mg	99.2%,U=0.38%
★ GBW10064	半乳糖纯度标准物质	Purity of galactose	2g	99.5%, U=0.7%
★ GBW10063	果糖纯度标准物质	Purity of fructose	2g	99.7%, U=0.5%
★ GBW10066	木糖纯度标准物质	Purity of xylose	2g	99.7%, U=0.7%
★ GBW10062	葡萄糖纯度标准物质	Purity of glucose	2g	99.6%, U=0.5%
★ GBW10065	乳糖纯度标准物质	Purity of lactose	2g	99.5%, U=0.8%
★ GBW10067	蔗糖纯度标准物质	Purity of sucrose	2g	99.7%, U=0.8%

## 食品添加剂及限量物质 /Food additives and Limited Components

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)090015a	黄曲霉毒素 B1 溶液标准物质	Aflatoxin B1 standard solution	2mL	(1.02 ± 0.022) μg/mL
★ GBW(E)100251	甲醇中 5-羟甲基糠醛溶液标准物质	5-Hydroxymethylfurfural (HMF) in methanol	10mL	1.00mg/mL, U=2%
★ GBW08676	水中溴酸根溶液标准物质	Bromate in water	20mL	1000mg/L, U=0.3% (k=2)
BW3634	丙烯酰胺纯度标准物质	Purity of Acrylamide	50mg	(99.9 ± 0.2) %
GBW(E)100001a	食用合成色素柠檬黄溶液标准物质	Food pigment-tartrazine in water	10ml	0.50mg/mL, U=1%
GBW(E)100003a	食用合成色素日落黄溶液标准物质	Food pigment-sunset yellow in water	10ml	0.50mg/mL, U=1%
GBW(E)100005a	食用合成色素亮蓝溶液标准物质	Food pigment-brilliant blue in water	10ml	0.50mg/mL, U=1%
GBW(E)100002a	食用合成色素苋菜红溶液标准物质	Food pigment-amaranth in water	10ml	0.50mg/mL, U=1%
GBW(E)100004a	食用合成色素胭脂红溶液标准物质	Food pigment-ponceau 4R in water	10ml	0.50mg/mL, U=1%
GBW(E)100191	赤藓红溶液标准物质	Erythrosine in water	5ml	100 μg/mL, U=2%
GBW(E)100192	诱惑红溶液标准物质	Allure red in water	5mL	100 μg/mL, U=2%
★ GBW(E)100208	对位红纯度标准物质	Purity of para red	0.1g/瓶	99.5%, U=0.5%
BW3524	苏丹红 1 号	Sudan I	0.1g	96.7%, U=1%
BW3525	苏丹红 2 号	Sudan II	0.1g	83.3%, U=2%
BW3526	苏丹红 3 号	Sudan III	0.1g	91.3%, U=2%
BW3527	苏丹红 4 号	Sudan IV	0.1g	75.5%, U=2%
BW3538	苏丹红 7B	Sudan red 7b	0.1g	93.5%, U=2%
BW3719	三氯丙醇溶液标准物质 (带内标)	3-MCPD(with internal standard)	set(3), 1 支氯丙醇配套 2 支内标物	101 μg/g, U=3%
BW3831	三聚氰胺纯度标准物质	Melamine	0.1g	99.9%, U=0.5%
BW3634	丙烯酰胺纯度标准物质	Purity of Acrylamide	50mg	(99.9 ± 0.2) %

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ BW3649	双氰胺纯度标准物质	Purity of Dicyanodiamide	100mg	99.4%, U=1.0%
GBW(E)100008	食品甜味剂糖精钠溶液标准物质	Food sweetener–sodium saccharin in water	10ml	1.00mg/mL, U=1%
GBW(E)100120 ~ 100214	安赛蜜溶液标准物质	Food sweetener–acesulfame potassium in water	4 × 10mL	(50–1000)mg/L, U=2.0%
GBW(E)100066	甜蜜素标准物质	Food sweetener–sodium cyclamate	0.2g	99.3%, U=0.8%
GBW(E)100132	三氯蔗糖纯度标准物质	Purity of sucralose	0.2g	( 99.6 ± 0.5 ) %
BW3605	三氯蔗糖溶液标准物质 (甜味剂)	Sucralose in water	5mL	100 μg/mL, U=3%
GBW(E)100006	食品防腐剂苯甲酸溶液标准物质	Food preservative–benzoic acid in water	10ml	1.00mg/mL, U=1%
BW3452	石油醚中苯甲酸溶液标准物质	Food preservative–benzoic acid in petroleum ether	10mL	1mg/mL, U=3%
GBW(E)100007	食品防腐剂山梨酸溶液标准物质	Food preservative–sorbic acid in water	10ml	1.00mg/mL, U=3%
GBW(E)100022	食品防腐剂山梨酸溶液标准物质	Food preservative–sorbic acid in water	10mL	1030 μg/mL, U=3%
BW3507	山梨酸标准物质	Food preservative–sorbic acid	0.2g	99%, U=1%
GBW(E)100025	食品防腐剂苯甲酸、山梨酸溶液标准物质	Food preservatives–benzoic acid and sorbic acid in water	5mL	100 μg/mL, U=2%
GBW(E)100074	食品添加剂对羟基苯甲酸甲酯纯度标准物质 (尼泊金甲酯)	Methyl p–hydroxy benzoate	0.1g	99.8%, U=0.2%
GBW(E)100064	尼泊金乙酯标准物质 (对羟基苯甲酸乙酯)	Ethyl p–hydroxybenzoate	0.1g	99.7%, U=0.2%
GBW(E)100075	食品添加剂对羟基苯甲酸丙酯纯度标准物质 (尼泊金丙酯)	Propyl p–hydroxybenzoate	0.1g	99.3%, U=0.2%
GBW(E)100076	食品添加剂对羟基苯甲酸异丙酯纯度标准物质 (尼泊金异丙酯)	Isopropyl p–hydroxybenzoate	0.1g	99.7%, U=0.2%
GBW(E)100077	食品添加剂对羟基苯甲酸丁酯纯度标准物质 (尼泊金丁酯)	Butyl p–hydroxybenzoate	0.1g	99.8%, U=0.2%
GBW(E)100187	对羟基苯甲酸正壬酯纯度标准物质	Purity of n–Nonyl 4–Hydroxybenzoate	200mg	99.4%,U=0.7%
GBW(E)100189	对羟基苯甲酸异丁酯纯度标准物质	Purity of iso–butyl 4–Hydroxybenzoate	200mg	99.8%,U=0.2%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW(E)100220	对羟基苯甲酸甲酯、对羟基苯甲酸乙酯、对羟基苯甲酸正丙酯、对羟基苯甲酸正丁酯、对羟基苯甲酸异丁酯、对羟基苯甲酸异丙酯和对羟基苯甲酸正庚酯混合溶液标准物质	Seven paraben esters mixed solution	2mL	100 μg/mL, U=2.0%
GBW(E)100193	乙腈中四种尼泊金酯类溶液标准物质	Four paraben esters in acetonitrile	2mL	对羟基苯甲酸甲酯 ( Methyl p-hydroxy benzoate ) : 120.0 μg/mL; 对羟基苯甲酸乙酯 ( Ethyl p-hydroxybenzoate ) : 119.5 μg/mL; 对羟基苯甲酸正丙酯 ( Propyl p-hydroxybenzoate ) : 119.8 μg/mL; 对羟基苯甲酸正丁酯 ( Butyl p-hydroxybenzoate ) : 122.2 μg/mL; U=2%
★ GBW(E)100206	2,6-二叔丁基对甲酚纯度标准物质	Purity of butylated hydroxytoluene (BHT)	0.2g/ 瓶	99.7%, U=0.2%
★ GBW(E)100207	叔丁基对羟基茴香醚纯度标准物质	Purity of butylated hydroxyanisole(BHA)	0.2g/ 瓶	99.5%, U=1.0%
GBW(E)100078	食品添加剂丙酸钙纯度标准物质	Calcium propionate	0.1g	99.7%, U=0.5%
GBW(E)100079	食品添加剂丙酸钠纯度标准物质	Sodium propionate	0.1g	98.7%, U=0.6%
GBW(E)100185	噻苯哒唑纯度标准物质 ( 抗菌剂 )	Purity of Thiabendazole	0.2g	99.9%, U=0.2%
GBW(E)100186	2- 异丙基硫杂蒽酮 (ITX) 纯度标准物质 ( 荧光增白剂 )	Purity of 2-isopropylthioxanthone	0.2g	99.8%, U=0.4%
GBW(E)100188	1- 苯基乙醇纯度标准物质	Purity of 1-phenylethanol	200mg	99.3%, U=0.3%
★ GBW09805	脱氧腺嘌呤核苷一磷酸	Purity of 2'-deoxyadenosine-5' -monophosphate	20mg	943 g/kg, U = 63 g/kg
★ GBW09806	脱氧胞嘧啶核苷一磷酸	Purity of 2'-deoxycytidine 5' -monophosphate	20mg	989 g/kg, U = 66 g/kg
★ GBW09807	脱氧鸟嘌呤核苷一磷酸	Purity of 2'-deoxyguanosine 5' -monophosphate	20mg	972 g/kg, U = 63 g/kg
★ GBW09808	胸腺嘧啶核苷一磷酸	Purity of Thymidine 5' -monophosphate	20mg	984 g/kg, U = 67 g/kg
★ GBW09809	腺嘌呤核苷一磷酸	Purity of Adenosine-5' -phosphoric acid	100mg	986 g/kg, U = 65 g/kg
★ GBW09810	胞苷一磷酸	cytidinemonophosphate	100mg	986 g/kg, U = 42 g/kg
★ GBW09811	鸟苷一磷酸	guanosinemonophosphate	100mg	962 g/kg, U = 56 g/kg
★ GBW09812	尿苷一磷酸	uridine monophosphate	100mg	968 g/kg, U = 66 g/kg
★ GBW09813	次黄嘌呤核苷一磷酸	Inosine monophosphate	100mg	978 g/kg, U = 68 g/kg
★ GBW09814	环腺嘌呤核苷一磷酸	Central adenosine monophosphate	100mg	978 g/kg, U = 65 g/kg

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100067	胞苷—5'—磷酸纯度标准物质	Purity of cytidine-5-monophosphate	100mg	99.3%;U=0.6%
GBW(E)100068	鸟苷—5'—磷酸二钠盐纯度标准物质	Purity of guanosine-5-monophosphoric acid disodiumsalt	100mg	99.1%;U=0.4%
GBW(E)100069	尿苷—5'—磷酸二钠盐纯度标准物质	Purity of uridine-5' phosphoric acid disodium salt	100mg	99.4%, U=0.4%
GBW(E)100070	腺嘌呤核苷纯度标准物质	Purity of adenosine	100mg	99.8%;U=0.3%
GBW(E)100071	尿嘧啶核苷纯度标准物质	Purity of uridine	100mg	99.4%;U=0.4%
GBW(E)100144	脱氧腺嘌呤核苷—磷酸纯度标准物质	Purity of 2'-deoxyadenosine-5'-monophosphate	20mg	98.72%,U=0.74%
GBW(E)100145	脱氧胞嘧啶核苷—磷酸纯度标准物质	Purity of 2'-deoxycytidine 5'-monophosphate	20mg	99.64%,U=0.76%
GBW(E)100146	脱氧鸟嘌呤核苷—磷酸纯度标准物质	Purity of 2'-deoxyguanosine 5'-monophosphate	20mg	99.38%,U=0.96%
GBW(E)100147	脱氧胸腺嘧啶核苷—磷酸纯度标准物质	Purity of 2'-deoxyguanosine 5'-monophosphate	20mg	99.50%,U=0.64%
GBW(E)100148	环腺嘌呤核苷—磷酸纯度标准物质	Purity of adenosine 3',5'-cyclic monophosphate	20mg	99.61%,U=0.62%
GBW(E)100154	腺嘌呤核苷—磷酸纯度标准物质	Purity of adenosine 3',5'-cyclic monophosphate	20mg	99.61%,U=0.13%
GBW(E)100181	次黄嘌呤核苷酸二钠纯度标准物质	Purity of disodium inosinate	100mg	99.75%,U=0.32%
GBW(E)100182	次黄嘌呤核苷纯度标准物质	Purity of inosinate	100mg	99.78%,U=0.24%

## 食品包装残留有害物质 /Residual Contaminants in Food Packaging Materials

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100137	甲醇中苯系物溶液标准物质 (包装材料检测用, 高标)	Three benzene series in methanol	2mL	toluene:1.330mg/mL, U=3%, ethyl benzene: 1.400mg/mL, U=3%, phenethylene:1.430mg/mL, U=3%,
GBW(E)100138	甲醇中苯系物溶液标准物质 (包装材料检测用, 低标)	Three benzene series in Methanol	2mL	toluene:0.029mg/mL, U=5%, ethyl benzene: 0.028mg/mL, U=5%, phenethylene:0.027mg/mL, U=5%,
GBW(E)081871 ~ 081876	食品包装材料检测用重金属系列混合溶液标准物质 (含空白)	Multi-elemental solution for analyzing of food packaging materials	7 × 70mL	Pb: ( 0.1-10 ) mg/L, U=1%-2%; As: ( 0.02-2 ) mg/L, U=1%-4%; Cd: ( 0.01-4 ) mg/L, U=1%-3%; Sb: ( 0.02-2 ) mg/L, U=1%-6%; Ni: ( 0.5-5 ) mg/L, U=1%-2%; Cr: ( 0.01-2 ) mg/L, U=1%-9%
GBW(E)081877 ~ 081879	食品包装材料检测用锌溶液系列标准物质	Zinc in 4%HAC for analyzing of food packaging Materials	4 × 70mL	( 1-3 ) mg/L, U=1%-2%

## **12. 高纯物质与容量分析用溶液标准物质 / High Purity Materials and Standards for Volumetric Analysis**

高纯物质

High Purity Materials

容量分析用溶液

Standard Solution for Volumetric Analysis

## 高纯物质 /High Purity Materials

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW06101c	碳酸钠纯度标准物质	Sodium carbonate purity	50g	99.982%, U=0.008%
GBW(E)060023d	碳酸钠纯度标准物质	Sodium carbonate purity	50g	99.95%, U=0.02%
GBW(E)060025b	乙二胺四乙酸二钠纯度标准物质	Ethylenediamine tetre-acetic acid disodium salt purity (complexometric standard)	50g	99.97%, U=0.03%
GBW06103b	氯化钠纯度标准物质	Sodium chloride purity(assay standard for chloride)	50g	99.987%, U=0.008%
GBW(E)060024d	氯化钠纯度标准物质	Sodium chloride purity(assay standard for chloride)	50g	99.99%, U=0.02%
GBW06109a	氯化钾纯度标准物质	Potassium chloride purity(assay standard for chloride)	50g	Calculated by Cl <sup>-</sup> : 99.990%, U=0.002%; Calculated by K: 99.97%, U=0.04%
GBW(E)060020a	氯化钾纯度标准物质	Potassium chloride purity(assay standard for chloride)	50g	99.98%, U=0.02%
GBW06106b	邻苯二甲酸氢钾纯度标准物质	Potassium hydrogen phthalate purity	50g	100.00%, U=0.01%
GBW(E)060019g	邻苯二甲酸氢钾纯度标准物质	Potassium hydrogen phthalate purity	40g	100.00%, U=0.02%
GBW(E)060080a	碳酸钙纯度标准物质	Calcium carbonate purity	50g	99.96%, U=0.04%
GBW06107b	草酸钠纯度标准物质	Sodium oxalate purity(reductometric standard)	50g	99.98%, U=0.02%
GBW(E)060021e	草酸钠纯度标准物质	Sodium oxalate purity(reductometric standard)	50g	99.98%, U=0.03%
GBW06108a	氧化锌纯度(络合量)标准物质	Zinc oxide purity(complexometric value)	50g	99.97%, U=0.04%
GBW06110b	碘酸钾(氧化量)纯度标准物质	Potassium iodate purity(oxidimetric value)	50g	99.96%, U=0.02%
GBW06105c	重铬酸钾纯度标准物质	Potassium dichromate purity(oxidimetric value)	50g	99.988%, U=0.008%
GBW(E)060018e	重铬酸钾纯度标准物质	Potassium dichromate purity(oxidimetric value)	50g	100.00%, U=0.02%
GBW06111	甲醇纯度标准物质	Purity of methanol	2mL	99.7%,U=0.3%
GBW06112	乙醇纯度标准物质	Purity of ethanol	2mL	99.8%,U=0.3%
GBW06113	乙腈纯度标准物质	Purity of acetonitrile	2mL	99.8%,U=0.3%
GBW06114	乙酸乙酯纯度标准物质	Purity of ethylacetate	2mL	99.7%,U=0.4%
GBW06115	丙酮纯度标准物质	Purity of acetone	2mL	99.2%,U=0.4%
GBW06116	正己烷纯度标准物质	Purity of hexane	2mL	98.2%,U=0.4%
GBW(E)060239	乙酰苯胺元素分析标准物质	Acetanilide standard for elemental analysis	2g	C, H, N

## 容量分析用溶液 /Standard Solution for Volumetric Analysis

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080969	碳酸钠容量分析用溶液标准物质	Sodium carbonate for volumetric analysis	90mL	0.1000mol/L( $1/2\text{Na}_2\text{CO}_3$ ), U=0.0003mol/L
GBW(E)080457	硫代硫酸钠容量分析用溶液标准物质	Sodium hyposulfite for volumetric analysis	20ml	0.1000mol/L( $1/2\text{Na}_2\text{S}_2\text{O}_3$ ), U=0.0002mol/L
GBW(E)080458	高锰酸钾容量分析用溶液标准物质	Potassium permanganate for volumetric analysis	20ml	0.1011mol/L, U=0.0002mol/L
GBW(E)080459	乙二胺四乙酸二钠容量分析用溶液标准物质	Ethylenediamine tetre-acetic acid disodium salt for volumetric analysis	20ml	0.05000mol/L, U=0.00005mol/L
GBW(E)080460	氯化锌容量分析用溶液标准物质	Zinc oxide for volumetric analysis	20ml	0.1000mol/L, U=0.0002mol/L
GBW(E)080461	氯化钠容量分析用溶液标准物质	Sodium chloride for volumetric analysis	20ml	0.1000mol/L, U=0.0002mol/L
GBW(E)080462	硝酸银容量分析用溶液标准物质	Silver nitrate for volumetric analysis	20ml	0.1006mol/L, U=0.0002mol/L
GBW(E)080463	盐酸容量分析用溶液标准物质	Hydrochloric acid for volumetric analysis	20ml	0.1017mol/L, U=0.0001mol/L
BW3196	氢氧化钠容量分析用溶液标准物质	Sodium hydroxide for volumetric analysis	90mL	0.1000mol/L, U=0.0003mol/L
BW3009	草酸钠容量分析用溶液标准物质	Sodium oxalate for volumetric analysis	20mL	0.1000mol/L, U=0.0002mol/L
GBW(E)080683	碘容量分析用溶液标准物质	Iodine for volumetric analysis	20ml	0.0496mol/L( $1/2\text{I}_2$ ), U=0.0002mol/L

# **13. 仪器检定 / 校准用标准物质 / Standards for Verification and Calibration of Analytical Instruments**



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)130079	原子吸收分光光度计检定用标准物质 (Cd)	Cd series standard solutions for the verification of graphite furnace atomic absorption spectrophotometry	5 × 90mL	(0.5–5.00)ng/mL, U=2%
GBW(E)130079	原子吸收分光光度计检定用标准物质 (Cu)	Cu series standard solutions for the verification of flame atomic absorption spectrophotometry	8 × 90mL	(0.50–5.00) μ g/mL, U=1%
GBW(E)130109	火焰光度计用标准物质	Series K and Na standard solutions for flame photometer	9 × 90mL	K: 0.004mmol/L–0.200mmol/L, Na: 0.004mmol/L–1.00mmol/L, U=1%
GBW(E)130242	ICP–MS 仪器校准用溶液标准物质 (Be、In、Bi)	Series Be, In, Bi standard solutions for ICP/MS verification	50mL	Be: (10.0 ± 0.6) μ g/L; In: (10.0 ± 0.6) μ g/L; Bi: (10.0 ± 0.6) μ g/L
GBW(E)130243	ICP–MS 仪器校准用溶液标准物质 (Cs)	Cs standard solution for ICP/MS verification	50mL	Cs: (10.0 ± 0.6) μ g/L
GBW(E)130244	ICP–MS 仪器校准用溶液标准物质 (Cs)	Cs standard solution for ICP/MS verification	50mL	Cs: (20.0 ± 0.6)mg/L
GBW(E) 130286–130289	ICP 光谱仪检定用标准溶液	Series standard solutions for the verification of ICP–OES	5 × 40mL	Cr, Ni, Zn: 1.00、2.00、5.00mg/L, U=2%; Cu, Mn, Ba: 0.50、1.00、2.50mg/L, U=2%; Se, Li, Na, K, Mn, Cu, Ba, Zn(for wavelength calibration): 0–50mg/L, U=2%
GBW(E)130066	紫外分光光度计用标准物质	Transmittance for UV Spectrophotometry(20°C )	20ml	235nm: (18.1 ± 0.2)%; 257nm: (13.7 ± 0.2)%; 313nm: (51.3 ± 0.2)%; 350nm: (22.3 ± 0.2)%
GBW(E)130110	介质膜干涉滤光片标准物质	Medium membrane interference filter	set(1)	450, 550, 650nm, U=1nm
GBW(E)130111	镨钕片标准物质	Praseodymium–Neodymium wavelength filter	1 piece	400~810nm, U=0.2nm
GBW(E)130112	氧化钬滤光片标准物质	Holmium oxide optical filter	set(1)	240~640, U=0.2nm
GBW(E)130113	可见光区透射比滤光片标准物质 (光谱中性滤光片)	Visible light transmission filter(Neutral density transmittance filter)	set(1)	10%, 20%, 30%, U=0.2% 透射比
GBW(E)130114	杂散光滤光片标准物质	Stray light optical filter	set(1)	220, 360, 380, 420nm, U=10%(A)
GBW(E)130225–226	酶标分析仪检定用滤光片标准物质 (干涉滤光片)	Standard interference filter for the verification of Microplate Reader	set(2)	峰值波长 (peak wavelength); 透射比 (transmittance)
★ GBW(E)082084	化学需氧量 (CODCr) 测定仪检定用标准溶液	Standard Solution for Chemical Oxygen Demand (CODCr) Meters	20mL	50.1mg/L, U=2%
★ GBW(E)082085	化学需氧量 (CODCr) 测定仪检定用标准溶液	Standard Solution for Chemical Oxygen Demand (CODCr) Meters	20mL	99.7mg/L, U=1.2%
★ GBW(E)082086	化学需氧量 (CODCr) 测定仪检定用标准溶液	Standard Solution for Chemical Oxygen Demand (CODCr) Meters	20mL	300mg/L, U=0.7%
★ GBW(E)082087	化学需氧量 (CODCr) 测定仪检定用标准溶液	Standard Solution for Chemical Oxygen Demand (CODCr) Meters	20mL	997.7mg/L, U=0.6%
GBW(E)130100	硫酸奎宁荧光标准物质	Quinine–sulfate for fluorescence measurement	0.5g	98.6% , U=0.5%
BW2025	生化分析仪检定用溶液标准物质 (含吸光度、杂散光、线性、交叉污染项目检定所需溶液)	Reference material for the verification of biochemistry analyzer (absorbance, stray light, linearity, cross–contamination)	1 set	/
BW2025–1	生化分析仪检定用溶液标准物质 (吸光度检定项目)	Reference material for the verification of biochemistry analyzer (absorbance)	1 set	/

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW2025-2	生化分析仪检定用溶液标准物质 (含吸光度、杂散光、线性项目检定所需溶液)	Reference material for the verification of biochemistry analyzer (absorbance, stray light, linearity)	1 set /	
BW3125	全自动生化仪标准物质	Reference material for the verification of fully automatic biochemistry analyzer	/	丙氨酸氨基转移酶 (ALT)( $47.2 \pm 2.0$ ) U/L; 葡萄糖 (Glucose): ( $5.55 \pm 0.15$ ) mmol/L
GBW(E)130101	气相色谱仪检定用标准物质 (苯-甲苯溶液, TCD 检测器用)	Benzene in methylbenzene for GC verification	2mL	( $5.00 \times 10^3 - 5.00 \times 10^5$ ) $\mu$ g/mL, U=3%
GBW(E)130102	气相色谱仪检定用标准物质 (正十六烷-异辛烷溶液)	N-hexadecane/isooctane standard solution for GC verification	2mL	( $1.00 \times 10^2 - 1.00 \times 10^4$ ) $\mu$ g/mL, U=3%
GBW(E)130103	气相色谱仪检定用标准物质 (甲基对硫磷-无水乙醇溶液)	Methyl Parathion /ethanol standard solution for GC verification	2mL	( $1.00 \times 10 - 1.00 \times 10^3$ ) $\mu$ g/mL, U=3%
GBW(E)130104	气相色谱仪检定用标准物质 (丙体六六六-异辛烷, ECD 检测器用)	$\gamma$ -666 in isooctane for GC verification	2mL	( $0.100 - 1.00$ ) $\mu$ g/mL, U=3%
BW3512	GC 测试用标准溶液 (FID 检测器用)	Standard solution for performance testing of GC-FID	1mL	正十四烷 (n-Tetradecane): 300ng/ $\mu$ l; 正十五烷 (n-pentadecane): 300ng/ $\mu$ l; 正十六烷 (n-hexadecane): 300ng/ $\mu$ l; U=3%
BW3513	GC 测试用标准溶液 (ECD 检测器用)	Standard solution for performance testing of GC-ECD	1mL	丙体六六六 ( $\gamma$ -666): 33.0pg/ $\mu$ l; 艾试剂 (aldrin): 33.0pg/ $\mu$ l; U=3%
BW3514	GC 测试用标准溶液 (TCD 检测器用)	Standard solution for performance testing of GC-TCD	1mL	正十四烷 (n-Tetradecane): 3.00mg/ml; 正十五烷 (n-pentadecane): 3.00 $\mu$ g/ $\mu$ l; 正十六烷 (n-hexadecane): 3.00ug/ $\mu$ l, U=3%
BW3515	GC 测试用标准溶液 (FPD 检测器用)	Calibration standard Standard solution for performance testing of GC-FPD	1mL	正十二烷硫醇 (1-Dodecanethiol): 21.5ng/ $\mu$ l; 磷酸三丁酯 (tributyl phosphate): 20.0ng/ $\mu$ l; 甲基对硫磷 (Parathion-methyl): 20.0ng/ $\mu$ l; 正十五烷 (n-pentadecane): 4000 ng/ $\mu$ l, U=3%
GBW(E)130245	气相色谱-质谱联用仪校准用标准物质 (异辛烷中八氟萘)	Octafluoronaphthalene in isooctane for GC/MS verification	1mL	100pg/ $\mu$ l, U=3%
GBW(E)130246	气相色谱-质谱联用仪校准用标准物质 (异辛烷中六氯苯)	Hexachlorobenzene in isooctane for GC/MS verification	1mL	10.0ng/ $\mu$ l, U=3%
GBW(E)130247	气相色谱-质谱联用仪校准用标准物质 (异辛烷中二苯甲酮)	Benzophenone in isooctane for GC/MS verification	1mL	10.0ng/ $\mu$ l, U=3%
BW3635	利血平溶液标准物质 (液相色谱质谱联用仪器校准用)	Reserpine in Isopropanol-water	1mL	1.00mg/L, U=5%
GBW(E)060122	正十六烷标准物质	n-hexadecane	0.5ml	99.4%, U=0.2%
BW5069	异辛烷中硬酯酸甲酯标准物质	Methyl octadecanoate in isooctane	1mL	10.0ng/ $\mu$ l, U=3%
GBW(E)130167	液相色谱仪检定用溶液标准物质 (萘-甲醇溶液)	Naphthalene in methanol for HPLC verification	5mL	$1.00 \times 10^{-4}$ g/mL, U=4%
GBW(E)130168	液相色谱仪检定用溶液标准物质 (萘-甲醇溶液)	Naphthalene in methanol for HPLC verification	5mL	$1.00 \times 10^{-7}$ g/mL, U=4%
GBW(E)130169	液相色谱仪检定用溶液标准物质 (硫酸奎宁-高氯酸溶液)	Quinine in sulfate/perchloric acid solution for HPLC verification	5mL	$1.00 \times 10^{-6}$ g/mL, U=3%
GBW(E)130170	液相色谱仪检定用溶液标准物质 (硫酸奎宁-高氯酸溶液)	Quinine in sulfate/perchloric acid solution for HPLC verification	5mL	$1.00 \times 10^{-9}$ g/mL, U=3%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW(E)130405	甲醇中胆固醇溶液标准物质	Cholesterol in methanol	1.5mL	200 μg/mL, U=2.0%
★ GBW(E)130406	甲醇中胆固醇溶液标准物质	Cholesterol in methanol	1.5mL	5.0 μg/mL, U=5.0%
★ GBW(E)082064	异辛烷中偶氮苯、马拉硫磷混合溶液	Azobenzene, malathion mixture in isooctane	2mL	马拉硫磷: 10.1ng/μL, U=3%; 偶氮苯: 8.68ng/μL, U=3%
GBW(E)130171	红外油份仪用溶液标准物质	Standard solution for infrared oil meter	5mL	1000mg/L, U=3%
BW5025	蔗糖溶液标准物质	Sucrose in water	3 × 2mL	10%; 30%; 50%, U=0.2%
BW5022	水中丙三醇溶液标准物质	Glycerol in water	2mL	1mg/L, U=5%
BW5022-1	水中丙三醇溶液标准物质	Glycerol in water	2mL	0.1mg/L, U=5%
GBW13306-11	烟度卡	Standard smokemetric tablet	6 pieces	(1.0, 2.5, 3.5, 5.0, 7.0, 9.0) smokemetric unit, U=0.2 smokemetric unit
GBW13308-10	烟度卡	Standard smokemetric tablet	3 pieces	(3.0, 5.0, 7.0) smokemetric unit, U=0.2 smokemetric unit
★ BW2027	尿液分析仪校准用溶液标准物质	Reference material for the calibration of urine analyzer	3 × 2mL	pH: 5.5, 6.5, 7.5, U=4%; 尿蛋白: 0 g/L, 0.2 g/L, 2.0 g/L, U=4%; 尿糖: 0 mmol/L, 2.7 mmol/L, 42 mmol/L, U=2%
★ GBW(E)130390	红外反射比标准物质	Infrared reflectance standard reference material	1 pieces	反射比: 4000cm <sup>-1</sup> , 0.957 ± 0.021; 3000cm <sup>-1</sup> , 0.956 ± 0.021; 2000cm <sup>-1</sup> , 0.958 ± 0.021; 1000cm <sup>-1</sup> , 0.957 ± 0.021; 900cm <sup>-1</sup> , 0.958 ± 0.021; 800cm <sup>-1</sup> , 0.960 ± 0.021; 700cm <sup>-1</sup> , 0.961 ± 0.021; 600cm <sup>-1</sup> , 0.962 ± 0.021; 500cm <sup>-1</sup> , 0.957 ± 0.021
★ GBW(E)130391	红外透射比标准物质	Infrared transmittance standard reference material	1 pieces	规则透射比: 4000cm <sup>-1</sup> , 1, 0.0981 ± 0.0030; 3000cm <sup>-1</sup> , 0.0945 ± 0.0030; 2000cm <sup>-1</sup> , 0.0922 ± 0.0030; 1000cm <sup>-1</sup> , 0.0845 ± 0.0030; 800cm <sup>-1</sup> , 0.0792 ± 0.0040; 750cm <sup>-1</sup> , 0.0754 ± 0.0040; 600cm <sup>-1</sup> , 0.0577 ± 0.0040; 500cm <sup>-1</sup> , 0.0810 ± 0.0040
★ GBW(E)130392	红外反射比标准物质	Infrared diffuse reflectance standard reference material	1 pieces	漫反射比: 5000cm <sup>-1</sup> , 0.909 ± 0.031; 4000cm <sup>-1</sup> , 0.915 ± 0.031; 3000cm <sup>-1</sup> , 0.912 ± 0.034; 2000cm <sup>-1</sup> , 0.931 ± 0.032。

# 14. 无机溶液标准物质 /Inorganic Solutions

金属元素

Metals

非金属元素及其它

Nonmetals and Others

形态 / 价态分析

Speciation

生化及化学耗氧量

BOD and COD

稀土元素

Rare Earth Elements

## 金属元素 /Metals

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08601	水中铅成份分析标准物质	Lead in water(0.5mol/L nitric acid)	80ml	(1.00 ± 0.02) μ g/g
GBW08619	水中铅成份分析标准物质	Lead in water(1% nitric acid)	20ml	(1000 ± 2) μ g/mL
GBW(E)080129	水中铅成分分析标准物质	Lead in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08602	水中镉成份分析标准物质	Cadmium in water(0.5mol/L nitric acid)	80ml	(0.100 ± 0.002) μ g/g
GBW08612	水中镉成份分析标准物质	Cadmium in water(1% nitric acid)	20ml	(1000 ± 2) μ g/mL
GBW(E)080119	水中镉成分分析标准物质	Cadmium in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08603	水中汞成份分析标准物质	Mercury in water(0.4mol/L hydrochloric acid)	20ml	(10.0 ± 0.4)ng/g
GBW08617	水中汞成份分析标准物质	Mercury in water(3% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080124	水中汞成分分析标准物质	Mercury in water(3% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08610	水中银成份分析标准物质	Silver in water(1% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080116	水中银成分分析标准物质	Silver in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08613	水中钴成份分析标准物质	Cobalt in water(1% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080120	水中钴成分分析标准物质	Cobalt in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08614	水中铬成份分析标准物质	Chromium in water(5% hydrochloric acid)	20ml	(1000 ± 1) μ g/mL
GBW08615	水中铜成份分析标准物质	Copper in water(1% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080122	水中铜成分分析标准物质	Copper in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08616	水中铁成份分析标准物质	Iron in water(5% hydrochloric acid)	20ml	(1000 ± 2) μ g/mL
GBW(E)080123	水中铁成分分析标准物质	Iron in water(5% hydrochloric acid)	20ml	100 μ g/mL , U=0.8%
GBW08618	水中镍成份分析标准物质	Nickel in water(1% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080128	水中镍成分分析标准物质	Nickel in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08620	水中锌成份分析标准物质	Zinc in water(1% nitric acid)	20ml	(1000 ± 1) μ g/mL
GBW(E)080130	水中锌成分分析标准物质	Zinc in water(1% nitric acid)	20ml	100 μ g/mL , U=0.8%
GBW08650	金溶液成分分析标准物质	Gold aqueous solution	20ml	(100.0 ± 0.4) μ g/g
GBW08664	钡溶液成分分析标准物质	Barium aqueous solution ( 0.06mol/L hydrochloric acid )	20ml	19.298mg/g, U=0.08%; 19.953mg/L, U=0.08%
GBW(E)080243	水中钡成份分析标准物质	Barium in water (5% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080118	水中钙成分分析标准物质	Calcium in water (5% hydrochloric acid)	80ml	1000 μ g/mL, U=0.5%
GBW(E)080261	水中钙成份分析标准物质	Calcium in water (5% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080125	水中钾成分分析标准物质	Potassium in water (1% hydrochloric acid)	80ml	1000 μ g/mL, U=0.5%
GBW(E)080259	水中钾成份分析标准物质	Potassium in water (1% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080126	水中镁成分分析标准物质	Magnesium in water (5% hydrochloric acid)	80ml	1000 μ g/mL, U=0.5%
GBW(E)080262	水中镁成份分析标准物质	Magnesium in water (5% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080127	水中钠成分分析标准物质	Sodium in water (1% hydrochloric acid)	80ml	1000 μ g/mL, U=0.5%
GBW(E)080260	水中钠成份分析标准物质	Sodium in water (1% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080157	水中锰成分分析标准物质	Manganese in water(1% nitric acid)	20ml	1000 μ g/mL, U=0.5%
GBW(E)080263	水中锰成份分析标准物质	Manganese in water(1% nitric acid)	20ml	100 μ g/mL, U=1%
GBW(E)080216	水中钒成分分析标准物质	Vanadium in water (1% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080218	水中钼成分分析标准物质	Molybdenum in water(1% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080219	水中铝成分分析标准物质	Aluminum in water (5% hydrochloric acid)	80ml	100 μ g/mL, U=1%
GBW(E)080242	水中锶成份分析标准物质	Strontium in water(5% hydrochloric acid)	80ml	100 μ g/mL, U=1%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080270	水中铟成分分析标准物质	Indium in water(1% hydrochloric acid)	20ml	100 μg/mL, U=1%
GBW(E)080271	水中铋成分分析标准物质	Bismuth in water(5% nitric acid)	80ml	100 μg/mL, U=1%
GBW(E)080545	水中锑成分分析标准物质	Antimony in water(10% hydrochloric acid)	80ml	100 μg/mL, U=1%
GBW(E)080546	水中锡成分分析标准物质	Tin in water(20% hydrochloric acid)	80ml	101 μg/mL, U=1%
GBW(E)080547	水中锂成分分析标准物质	Lithium in water(10% hydrochloric acid)	80ml	100 μg/mL, U=1%
BW3142	钨单元素溶液标准物质	Tungsten in 0.05% NaOH	60mL	0.1g/L, U=2%
BW3154	铊单元素溶液标准物质	Thallium in 0.5% sulfuric acid	20mL	1000mg/L, U=1.5%
BW3177	铂单元素溶液标准物质	Platinum in 5% HCl	20mL	100mg/L, U=2%
BW3041	钛单元素溶液标准物质	Titanium in 0.05mol/L sulfuric acid and 0.2% potassium disulfate	80mL	100mg/L, U=2%
BW3151	镓单元素溶液标准物质	Gallium in 10% HCl	20mL	1000mg/L, U=1.5%
BW3032	铍单元素溶液标准物质	Beryllium in 2% HCl	80mL	10mg/L, U=3%
BW3144	铯单元素溶液标准物质	Cesium in 1% HCl	20mL	100mg/L, U=2%
GBW(E)080335a	水中钙镁成分分析标准物质	Ca and Mg in water	20mL	Ca, Mg, total rigidity
GBW(E)080336a	水中钙镁成分分析标准物质	Ca and Mg in water	20mL	Ca, Mg, total rigidity
GBW(E)080337a	水中钙镁成分分析标准物质	Ca and Mg in water	20mL	Ca, Mg, total rigidity
GBW(E)080112	水中无机盐成分分析标准物质	Mineral salts in water	3 × 20ml	K, Na, Ca, Mg, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , total rigidity, total alkalinity
GBW08607	水中镉、铬、铜、镍、铅、锌成分分析标准物质	Metal elements in water(0.5mol/L nitric acid)	20ml	Cd: (0.104 ± 0.002) μg/g; Cr: (0.51 ± 0.01) μg/g; Cu: (1.03 ± 0.01) μg/g; Ni: (0.517 ± 0.006) μg/g; Pb: (1.03 ± 0.02) μg/g; Zn: (5.15 ± 0.05) μg/g;
GBW08608	水中镉、铬、铜、镍、铅、锌成分分析标准物质	Metal elements in water(0.5mol/L nitric acid)	80ml	Cd: (10.4 ± 0.4)ng/g; Cr: (31 ± 2)ng/g; Cu: (49 ± 2)ng/g; Ni: (61 ± 3)ng/g; Pb: (49 ± 2)ng/g; Zn: (89 ± 4)ng/g;
GBW(E)080194	水中铜, 锌, 铅, 镉, 铁, 锰, 镍, 总铬成分分析标准物质	Cu, Zn, Pb, Cd, Fe, Mn, Ni, Cr in water	25ml	Cu, Zn, Pb, Cd, Fe, Mn, Ni, total Cr
GBW(E)080196	水中铜, 锌, 铅, 镉成分分析标准物质	Cu, Zn, Pb, Cd in water	25ml	Cu, Zn, Pb, Cd
GBW(E)081536	玩具检测用十种金属元素混合溶液标准物质	Multi-elemental Solution for Analyzing of Toys	50mL	Cu: 100 μg/mL; Zn: 100 μg/mL; Cd: 100 μg/mL; Pb: 100 μg/mL; Cr: 100 μg/mL; Se: 100 μg/mL; Sb: 100 μg/mL; Ni: 100 μg/mL; Ba: 110 μg/mL; As: 100 μg/mL, U=3%
BW3072	玩具检测用十种金属元素混合溶液标准物质	Multi-elemental Solution for Analyzing of Toys	50mL	Cu: 2.0 μg/mL; Zn: 2.0 μg/mL; Cd: 2.0 μg/mL; Pb: 2.0 μg/mL; Cr: 2.0 μg/mL; Se: 2.0 μg/mL; Sb: 2.0 μg/mL; Ni: 2.0 μg/mL; Ba: 2.0 μg/mL; As: 2.0 μg/mL, U=3%
GBW(E)081531	16种无机元素混合溶液标准物质	Multi-elemental standard solution for 16 elements	50mL	Cd, Zn, Cu, Ni, Ba, Cr, Mn, Fe, Mg, As: 50 μg/mL; Pb, Se, Al, Ca, K, Na: 100 μg/mL; U=1%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081532	16种无机元素混合溶液标准物质	Multi-elemental standard solution for 16 elements	50mL*5	Cd, Zn, Cu, Ni, Ba, Cr, Mn, Fe, As: 0.5 μg/mL, U=2%; Mg: 0.5 μg/mL, U=4%; Pb, Se, Al: 1.0 μg/mL, U=2%; Ca, K: 1.0 μg/mL, U=3%; Na: 1.0 μg/mL, U=4%
GBW(E)081533	16种无机元素混合溶液标准物质	Multi-elemental standard solution for 16 elements		Cd, Zn, Cu, Ni, Ba, Cr, Mn, Fe, Mg, As: 1.0 μg/mL; Pb, Se, Al, Ca, K, Na: 2.0 μg/mL; U=2%
GBW(E)081534	16种无机元素混合溶液标准物质	Multi-elemental standard solution for 16 elements		Cd, Zn, Cu, Ni, Ba, Cr, Mn, Fe, Mg, As: 2.5 μg/mL; Pb, Se, Al, Ca, K, Na: 5.0 μg/mL; U=2%
GBW(E)081535	16种无机元素混合溶液标准物质	Multi-elemental standard solution for 16 elements		Cd, Zn, Cu, Ni, Ba, Cr, Mn, Fe, Mg: 5.0 μg/mL, U=2%; As: 5.0 μg/mL, U=1%; Pb, Se, Al, Ca: 10.0 μg/mL, U=2%; K, Na: 10.0 μg/mL; U=1%

## 非金属元素及其它 /Nonmetals and Others

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080548	水中碲成分分析标准物质	Tellurium in water(10% hydrochloric acid)	80ml	100 μg/mL, U=1%
GBW(E)080215	水中硒成分分析标准物质	Selenium in water(1% hydrochloric acid)	80ml	100 μg/mL, U=1%
GBW(E)080217	水中硼成分分析标准物质	Boron in water	80ml	100 μg/mL, U=1%
GBW08605	水中砷成份分析标准物质	Arsenic in water	20ml	(0.500 ± 0.008) μg/g
GBW08611	水中砷成份分析标准物质	Arsenic in water(1% nitric acid)	20ml	(1000 ± 1) μg/mL
GBW(E)080117	水中砷成分分析标准物质	Arsenic in water(1% nitric acid)	20ml	100 μg/mL, U=0.8%
GBW08604	水中氟成份分析标准物质	Fluoride in water	80ml	(1.00 ± 0.02) μg/g
GBW(E)080549	水中氟成分分析标准物质	Fluoride in water	20ml	1000mg/L, U=1%
GBW(E)080338a	水中氟化物成分分析标准物质	Fluoride in water	20mL	12.8mg/L, U=2%
GBW(E)080339a	水中氟化物成分分析标准物质	Fluoride in water	20mL	25.0mg/L, U=2%
GBW(E)080340a	水中氟化物成分分析标准物质	Fluoride in water	20mL	39.5mg/L, U=2%
GBW(E)080268	水中氯根成分分析标准物质	Chloride in water	20ml	1000 μg/mL, U=0.7%
GBW(E)080269	水中氯根成分分析标准物质	Chloride in water	20ml	100 μg/mL, U=1%
BW3063	水中溴溶液标准物质	Bromine in water	20mL	100mg/L, U=1%
GBW08665	硫酸钠中硫酸根成分分析标准物质	Sulfate in sodium sulfate	50g	67.67%, U=0.13%
GBW(E)080266	水中硫酸根成分分析标准物质	SO <sub>4</sub> <sup>2-</sup> in water	20ml	1000 μg/mL, U=0.7%
GBW(E)080267	水中硫酸根成分分析标准物质	SO <sub>4</sub> <sup>2-</sup> in water	20ml	100 μg/mL, U=1%
GBW(E)080264	水中硝酸根成分分析标准物质	NO <sub>3</sub> <sup>-</sup> in water	20ml	1000 μg/mL, U=0.7%
GBW(E)080265	水中硝酸根成分分析标准物质	NO <sub>3</sub> <sup>-</sup> in water	20ml	100 μg/mL, U=1%
GBW08606	水中氯根、硝酸根、硫酸根成份分析标准物质	Cl <sup>-</sup> , NO <sub>3</sub> and SO <sub>4</sub> <sup>2-</sup> in water	20ml	(Cl <sup>-</sup> : (22.5 ± 0.4) μg/g; NO <sub>3</sub> <sup>-</sup> : (4.6 ± 0.1) μg/g; SO <sub>4</sub> <sup>2-</sup> : (38.8 ± 0.8) μg/g)
BW3058	硝酸盐态氮溶液标准物质	NO <sub>3</sub> <sup>-</sup> -N in water	20mL	1000mg/L, U=1%
GBW(E)080223	水中亚硝酸盐氮成分分析标准物质	NO <sub>2</sub> <sup>-</sup> -N in water	20ml	0.1g/L, U=2% (calculated by N)
GBW(E)080220	水中氨氮成分分析标准物质	Amino nitrogen in water	20ml	0.1g/L, U=2% (calculated by N)
GBW(E)081019	总氮 (TN) 标准溶液	Total nitrogen in water	20mL	500mg/L, U=1%
GBW(E)080115	水中氰成分分析标准物质	CN <sup>-</sup> in water(0.1mol/L NaOH)	40ml	about 50 μg/mL, U=1%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW3180	硫元素溶液标准物质	Sulfur in 1% HCl	20mL	1000mg/L, U=1%
GBW08630	硫化物溶液标准物质	Sulfide solution	10ml	(50–100) μg/mL, U=2.3%
GBW(E)080431	磷溶液成分分析标准物质	Phosphorus solution	20ml	1000 μg/mL, U=0.5%
GBW(E)080435	磷酸二氢根溶液成分分析标准物质	Dihydrogen phosphate solution	20ml	1000mg/L, U=1.3%
GBW(E)080272	水中二氧化硅成分分析标准物质	Silicon dioxide in water	80ml	100mg/L, U=1%
GBW(E)080345	色度溶液标准物质	Chroma solution	20ml	500 degree, U=1%
BW3162	总碱度溶液标准物质	Total alkalinity in water	80mL	1000mg/L, U=1.0% (calculated by Na <sub>2</sub> CO <sub>3</sub> )
GBW(E)080224	水硬度标准物质	Total rigidity of water	20ml	4500mg/L, U=1% (calculated by CaCO <sub>3</sub> )
GBW(E)080112	水中无机盐成分分析标准物质	Mineral salts in water	3 × 20ml	K, Na, Ca, Mg, Cl <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , total rigidity, total alkalinity
GBW(E)080970	水中溶解性固体总量标准物质	Total dissolved solid	20mL	20.0g/L, U=1%
GBW(E)080651	水中无机碳溶液标准物质	Inorganic carbon (IC) in water	20ml	1000mg/L, U=2%
GBW(E)080650	水中有机碳溶液标准物质	Organic carbon (TOC) in water	20ml	1000mg/L, U=2%
GBW(E)081639	阴离子表面活性剂标准物质	Anion detergent in water	20mL	1000mg/L, U=2.0%
GBW(E)080257	水中六价铬成份分析标准物质	Cr( VI ) in water	20ml	100 μg/mL, U=0.8%

## 形态 / 价态分析 / Speciation

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080971	水中三甲基铅成份分析标准物质	Trimethyllead in water	20ml	(91.1 ± 5.4) μg/mL
GBW(E)080972	水中三甲基铅成份分析标准物质	Trimethyllead in water	20ml	(0.729 ± 0.054) μg/mL
GBW08668	一甲基砷溶液标准物质	Monomethylarsonic acid in water	2mL	(0.335 ± 0.011) μmol/g
GBW08669	二甲基砷溶液标准物质	Dimethylarsinic acid in water	2mL	(0.705 ± 0.024) μmol/g
GBW08670	砷甜菜碱溶液标准物质	Arsenobetaine in water	2mL	(0.518 ± 0.015) μmol/g
GBW08671	砷胆碱溶液标准物质	Arsenocholine in water	2mL	(0.374 ± 0.015) μmol/g
GBW08666	亚砷酸根 (三价无机砷) 溶液标准物质	Arsenic acid(As( III )) in water	2mL	(1.011 ± 0.016) μmol/g
GBW08667	砷酸根 (五价无机砷) 溶液标准物质	Arsenic acid(As( V )) in water	2mL	(0.233 ± 0.005) μmol/g
GBW08675	甲基汞溶液标准物质	Methylmercury in methanol	1.5ml	(76.6 ± 2.9) μg/g(Caculated by Hg)
BW3218	乙基汞溶液标准物质	Ethylmercury in methanol	2mL	(65.8 ± 2.4) μg/g(Caculated by Hg)
GBW08710	三丁基锡溶液标准物质	Tributyltin chloride in methanol	2mL	(633 ± 19) μg/g(Caculated by Sn); (1547 ± 47) μg/g(Caculated by C <sub>12</sub> H <sub>27</sub> Sn);
★ GBW08711	甲醇中二丁基锡溶液标准物质	Dibutyltin in Methanol	2mL	( 195 ± 5 ) μg/g ( Caculated by[(C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> Sn] <sup>2+</sup> )
★ GBW08712	甲醇中三苯基锡溶液标准物质	Triphenyltin in Methanol	2mL	( 293 ± 6 ) μg/g ( Caculated by[(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> Sn] <sup>+</sup> )
GBW10032	亚硒酸根溶液标准物质	Selenite in Water	2mL	(42.9 ± 0.9)(μg/g) (Caculated as Se)
GBW10033	硒酸根溶液标准物质	Selenate in Water	2mL	(41.5 ± 1.3)(μg/g) (Caculated as Se)
GBW10034	硒代蛋氨酸溶液标准物质	Selenomethionine in Water	2mL	(39.4 ± 1.0)(μg/g) (Caculated as Se)

## 生化及化学耗氧量 /BOD and COD

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080273	化学耗氧量 (Cr 法) 成分标准物质	COD(Cr)	20ml	100mg/L, U=2%
GBW(E)080201	高锰酸盐指数标准物质	COD(Mn)	25ml	COD(Mn): (4.17 ± 0.08)mg/L
GBW(E)080274	化学耗氧量 (Mn 法) 成分标准物质	COD(Mn)	20ml	265mg/L, U=3%
GBW(E)080550	五日生化需氧量 (BOD <sub>5</sub> ) 成分分析标准物质	BOD <sub>5</sub>	20ml	1000mg/L, U=5%
GBW(E)080551	五日生化需氧量 (BOD <sub>5</sub> ) 成分分析标准物质	BOD <sub>5</sub>	20ml	3000mg/L, U=4%
GBW(E)080203	生化, 化学需氧量成分分析标准物质	BOD and COD(Cr)	25ml	BOD <sub>5</sub> : (69.54 ± 0.96)mg/L, COD(Cr): (108.3 ± 0.9)mg/L

## 稀土元素 /Rare Earth Elements

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08651	镧 (La) 溶液成分分析标准物质	Lanthanum in 10% hydrochloric acid	20ml	(982.3 ± 0.3) μ g/g
GBW08652	铈 (Ce) 溶液成分分析标准物质	Cerium in 10% nitric acid	20ml	(951.5 ± 0.4) μ g/g
GBW08653	钐 (Sm) 溶液成分分析标准物质	Samarium in 10% hydrochloric acid	20ml	(982.3 ± 0.6) μ g/g
GBW08654	铕 (Eu) 溶液成分分析标准物质	Europium in 10% hydrochloric acid	20ml	(982.3 ± 0.4) μ g/g
GBW08655	铽 (Yb) 溶液成分分析标准物质	Ytterbium in 10% hydrochloric acid	20ml	(982.3 ± 0.4) μ g/g
GBW08656	镨 (Lu) 溶液成分分析标准物质	Lutecium in 10% hydrochloric acid	20ml	(982.3 ± 0.4) μ g/g
GBW08657	钇 (Yt) 溶液成分分析标准物质	Yttrium in 10% hydrochloric acid	20ml	(982.3 ± 0.3) μ g/g
BW3133	镨 (Pr) 单元素溶液标准物质	Praseodymium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3134	钕 (Nd) 单元素溶液标准物质	Neodymium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3135	钆 (Gd) 单元素溶液标准物质	Gadolinium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3136	铽 (Tb) 单元素溶液标准物质	Terbium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3137	镝 (Dy) 单元素溶液标准物质	Dysprosium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3138	铥 (Ho) 单元素溶液标准物质	Holmium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3139	铒 (Er) 单元素溶液标准物质	Erbium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3140	铥 (Tm) 单元素溶液标准物质	Thulium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3141	钪 (Sc) 单元素溶液标准物质	Scandium in 10% hydrochloric acid	20mL	1000mg/L, U=1.0%
BW3143	铷 (Rb) 单元素溶液标准物质	Rubidium in 1% hydrochloric acid	20mL	100mg/L, U=2%

# 15. 有机溶液标准物质 / Organic Solutions

苯系物

Benzene Series

卤代烃

Halohydrocarbons

硝基苯

Nitrobenzene Series

氯苯

Chlorobenzene Series

多环芳烃

PAHs

多氯及多溴联苯(醚)

PCBs, PBBs and PBDEs

增塑剂

Plasticizer

其它

Others

## 苯系物 /Benzene Series

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW08703	甲醇中苯成份分析标准物质	Benzene in methanol	2mL	1mg/mL, U=3%
GBW08704	甲醇中甲苯成份分析标准物质	Toluene in methanol	2mL	1mg/mL, U=3%
GBW08705	甲醇中乙苯成份分析标准物质	Ethylbenzene in methanol	2mL	1mg/mL, U=3%
GBW08706	甲醇中邻-二甲苯成份分析标准物质	o-xylene in methanol	2mL	1mg/mL, U=3%
GBW08707	甲醇中中间-二甲苯成份分析标准物质	m-xylene in methanol	2mL	1mg/mL, U=3%
GBW08708	甲醇中对-二甲苯成份分析标准物质	p-xylene in methanol	2mL	1mg/mL, U=3%
GBW(E)100139	甲醇中苯乙烯溶液标准物质	Styrene in methanol	2mL	0.44mg/mL, U=2.6%
BW3417	甲醇中苯乙烯溶液标准物质	Styrene in methanol	2mL	1mg/mL, U=3%
BW3416	甲醇中异丙苯溶液标准物质	Isopropylbenzene in methanol	2mL	1mg/mL, U=3%
GBW(E)081154 ~081156	甲醇中总挥发性有机物(TVOC)系列混合标准溶液(含苯、甲苯、乙苯、乙酸乙酯、邻二甲苯、间二甲苯、对二甲苯、正十一烷、苯乙烯)	TVOCs in methanol(benzene, toluene, ethylbenzene, ethyl acetate, o-xylene, m-xylene, p-xylene, undecane and styrene)	4 × 2mL	1mg/mL, U=5.0%; 0.1mg/mL, U=5.0%; 0.01mg/mL, U=5.0%
GBW(E)081023	甲醇中苯系物溶液标准物质	Aromatic hydrocarbons in methanol	1mL	苯(benzene): 35.7mg/L; 甲苯(toluene): 34.8mg/L; 对二甲苯(p-xylene): 34.7mg/L; 邻二甲苯(o-xylene): 35.1mg/L; U=5%

## 卤代烃 /Halohydrocarbons

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081054	甲醇中二氯甲烷溶液标准物质	Dichloromethane in methanol	2mL	1mg/mL, U=3%
GBW(E)080239	甲醇中三氯甲烷溶液标准物质	Trichloromethane in methanol	3 × 2mL	3.0mg/L, U=2%; 6.0mg/L, U=2%; 10.0mg/L, U=2%
GBW(E)080240	甲醇中四氯甲烷标准物质	Carbon tetrachloride in methanol	3 × 2mL	0.30mg/L, U=2%; 0.60mg/L, U=2%; 1.00mg/L, U=2%
BW3504	甲醇中三氯甲烷、四氯化碳混合溶液标准物质	Trichloromethane and carbon tetrachloride in methanol	2mL	CHCl <sub>3</sub> : 5.00mg/L, CCl <sub>4</sub> : 0.25mg/L, U=5%
GBW(E)080469	甲醇中三溴甲烷溶液标准物质	Bromoform in methanol	2mL	1.00mg/mL, U=4%
GBW(E)081057	甲醇中一溴二氯甲烷溶液标准物质	Bromodichloromethane in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081058	甲醇中二溴一氯甲烷溶液标准物质	Chlorodibromomethane in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081056	甲醇中1, 2-二氯乙烷溶液标准物质	1, 2-dichloroethane in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081055	甲醇中1, 1-二氯乙烷溶液标准物质	1, 1-dichloroethane in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080466	甲醇中1, 1, 1-三氯乙烷溶液标准物质	1, 1, 1-trichloroethane in methanol	2mL	1.00mg/mL, U=4%
GBW(E)080467	甲醇中1, 1, 2-三氯乙烷溶液标准物质	1, 1, 2-trichloroethane in methanol	2mL	1.00mg/mL, U=4%
GBW(E)080468	甲醇中1, 1, 2, 2-四氯乙烷溶液标准物质	1, 1, 2, 2-tetrachloroethane in methanol	2mL	1.00mg/mL, U=4%
GBW(E)080465	甲醇中1, 1-二氯乙烯溶液标准物质	1, 1-dichloroethene in methanol	2mL	1.00mg/mL, U=4%
GBW(E)081062	甲醇中1, 2-二氯乙烯溶液标准物质(顺式)	Cis-1, 2-dichloroethylene in methanol	2mL	1.00mg/mL, U=3%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081061	甲醇中 1, 2- 二氯乙烯溶液标准物质 (反式)	Trans-1, 2-dichloroethylene in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081059	甲醇中三氯乙烯溶液标准物质	Trichloroethylene in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081060	甲醇中四氯乙烯溶液标准物质	Tetrachloroethylene in methanol	2mL	1.00mg/mL, U=3%
GBW(E)081104	甲醇中六氯丁二烯溶液标准物质	Hexachlorobutadiene in methanol	1.5mL	0.503mg/mL, U=5%
GBW(E)081098	二氯甲烷中环氧氯丙烷溶液标准物质	3-Chloro-1,2-epoxypropane(Epichlorohydrin) in Dichloromethane	1.5mL	0.993mg/mL, U=5%
GBW(E)081063	甲醇中卤代烃混合溶液标准物质	Chlorinated hydrocarbons mixtures in methanol	2mL	二氯甲烷 (Dichloromethane), 1,1 二氯乙烷 (1, 1-dichloroethane), 1,2, 二氯乙烷 (1, 2-dichloroethane), 三氯乙烯 (Trichloroethylene), 四氯乙烯 (Tetrachloroethylene), 一溴二氯甲烷 (Bromodichloromethane); 二溴一氯甲烷 (Chlorodibromomethane); 反式 -1,2- 二氯乙烯 (Trans-1, 2-dichloroethylene): 0.1mg/ml, U=5%
GBW(E)081024	甲醇中卤代甲烷溶液标准物质	haloromethane in methanol	1mL	三氯甲烷 (trichloromethane): 57.4mg/L; 一溴二氯甲烷 (monobromo-dichloro-methane): 77.7mg/L; 二溴一氯甲烷 (dibromo-monochloro-methane): 98.3mg/L; U=5%

## 酚类 /Phenols

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080241	水中 (挥发) 酚成份分析标准物质	Hydroxybenzene in water	20ml	1000mg/L, U=1.5% (calculated by phenol)
GBW(E)080470	甲醇中苯酚溶液标准物质	Phenol in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080471	甲醇中间甲酚溶液标准物质	m-methylphenol in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080472	甲醇中 2, 4- 二氯酚溶液标准物质	2, 4-dichlorophenol in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080475	甲醇中五氯酚溶液标准物质	Pentachlorophenol in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080473	甲醇中 2, 4, 6- 三氯酚溶液标准物质	2, 4, 6-trichlorophenol in methanol	2mL	1.00mg/mL, U=3%
GBW(E)080474	甲醇中 4- 硝基酚溶液标准物质	4-nitrophenol in methanol	2mL	1.00mg/mL, U=3%
BW3506	甲醇中酚系物混合溶液标准物质	Phenols in methanol	2mL	苯酚 (Phenol), 间甲酚 (m-methylphenol), 2, 4- 二氯酚 (2, 4-dichlorophenol), 2, 4, 6- 三氯酚 (2, 4, 6-trichlorophenol), 五氯酚 (Pentachlorophenol): 20 µg/mL, U=4%
BW3506-2	甲醇中 3 种酚系物混合溶液标准物质	Phenols in methanol	2mL	2, 4- 二氯酚 (2, 4-dichlorophenol): 50 µg/mL; 2, 4, 6- 三氯酚 (2, 4, 6-trichlorophenol): 20 µg/mL; ; 五氯酚 (Pentachlorophenol): 11 µg/mL, U=5%



## 硝基苯 /Nitrobenzene Series

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081047	甲醇中硝基苯溶液标准物质	Nitrobenzene in methanol	2mL	1.00mg/mL, U=2%
GBW(E)081048	甲醇中对硝基甲苯溶液标准物质	p-nitrotoluene in methanol	2mL	1.00mg/mL, U=2%
GBW(E)081050	甲醇中 2, 4-二硝基甲苯溶液标准物质	2, 4-dinitrotoluene in methanol	2mL	1.00mg/mL, U=2%
GBW(E)081051	甲醇中 2, 4-二硝基氯苯溶液标准物质	2, 4-dinitrochlorobenzene in methanol	2mL	1.00mg/mL, U=2%
GBW(E)081052	甲醇中 2,4,6-三硝基甲苯溶液标准物质	2, 4, 6-trinitrotoluene in methanol	2mL	1.00mg/mL, U=2%
GBW(E)081053	甲醇中硝基苯系列混合溶液标准物质	6 nitrobenzene compounds in methanol	2mL	0.100mg/mL, U=10%
GBW(E)081049	甲醇中对硝基氯苯溶液标准物质	p-nitrochlorobenzene in methanol	2mL	1.00mg/mL, U=2%
BW3444	五氯硝基苯溶液标准物质	Pentachloronitrobenzene	2mL	0.100mg/mL, U=2%

## 氯苯 /Chlorobenzene Series

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW3430	异辛烷中邻二氯苯溶液标准物质	1, 2-dichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3431	异辛烷中间二氯苯溶液标准物质	1, 3-dichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3432	异辛烷中对二氯苯溶液标准物质	1, 4-dichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3433	异辛烷中 1, 2, 4-三氯苯溶液标准物质	1, 2, 4-trichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3434	异辛烷中六氯苯溶液标准物质	Hexachlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
GBW(E)130246	气相色谱-质谱联用仪校准用标准物质(异辛烷中六氯苯)	Hexachlorobenzene in isooctane for GC/MS verification	1mL	10.0ng/ $\mu$ l, U=3%
GBW(E)081110	正己烷中六氯苯溶液标准物质(低)	Hexachlorobenzene in n-hexane(low concentration)	1.5mL	0.05mg/mL, U=5%
GBW(E)081110-1	正己烷中六氯苯溶液标准物质(高)	Hexachlorobenzene in n-hexane(high concentration)	1.5mL	0.08mg/mL, U=5%
BW3435	异辛烷中一氯代苯溶液标准物质	Chlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3499	异辛烷中 1, 2, 3-三氯苯溶液标准物质	1, 2, 3-trichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3500	异辛烷中 1, 3, 5-三氯苯溶液标准物质	1, 3, 5-trichlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3501	异辛烷中 1, 2, 3, 4-四氯苯溶液标准物质	1, 2, 3,4-tetrachlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3502	异辛烷中 1, 2, 4, 5-四氯苯溶液标准物质	1,2,4,5-tetrachlorobenzene in isooctane	2mL	0.100mg/mL, U=3%
BW3503	异辛烷中五氯苯溶液标准物质	Pentachlorobenzene in isooctane	2mL	0.100mg/mL, U=3%

## 多环芳烃 /PAHs

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)080476	甲醇中苯并 (a) 芘溶液标准物质	Benzo(a)pyrene in methanol	2mL	(10–100) $\mu$ g/mL, U=4%
GBW(E)080481	甲醇中茚并 (ghi–cd) 芘溶液标准物质	Indeno(1, 2, 3–cd)pyrene in methanol	2mL	(10–100) $\mu$ g/mL, U=4%
GBW(E)080479	甲醇中苯并 (ghi) 花溶液标准物质	Benzo(ghi)perylene in methanol	2mL	(10–100) $\mu$ g/mL, U=5%
GBW(E)080478	甲醇中苯并 (b) 荧蒽溶液标准物质	Benzo(b)fluoranthene in methanol	2mL	(10–100) $\mu$ g/mL, U=5%
GBW(E)080480	甲醇中苯并 (k) 荧蒽溶液标准物质	Benzo(k)fluoranthene in methanol	2mL	(10–100) $\mu$ g/mL, U=6%
GBW(E)080477	甲醇中荧蒽溶液标准物质	Fluoranthene in methanol	2mL	(10–100) $\mu$ g/mL, U=4%
BW5064	甲醇中蒽溶液标准物质	Anthracene in methanol	2mL	200 $\mu$ g/mL, U=4%
BW5065	甲醇中菲溶液标准物质	Phenanthrene in methanol	2mL	200 $\mu$ g/mL, U=4%
BW5066	甲醇中屈溶液标准物质	Chrysene in methanol	2mL	100 $\mu$ g/mL, U=4%
BW5020	甲醇中萘溶液标准物质	Naphthalene in methanol	2mL	200 $\mu$ g/mL, U=4%
BW5067	甲醇中联苯溶液标准物质	Biphenyl in methanol	2mL	200 $\mu$ g/mL, U=4%
BW5068	多环芳烃混合溶液标准物质	PAHs in methanol	2mL	萘 (naphthalene), 荧蒽 (fluoranthene), 苯并 (b) 荧蒽 (benzo[b]fluorathene), 苯并 (k) 荧蒽 (benzo[k]fluorathene), 苯并 (ghi) 芘 (benzo[ghi]Pyrene), 茚并 (1, 2, 3, –cd) 芘 (Indeno[1, 2, 3, –cd]pyrene), 苯并 (a) 芘 (benzo[a]Pyrene): (6.9–16) $\mu$ g/mL, U=5%

## 多氯及多溴联苯 ( 醚 )/PCBs, PBBs and PBDEs

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW3706	异辛烷中 7 种多氯联苯混合溶液标准物质	7 PCBs in isooctane	1mL	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180: (190–210) $\mu$ g/kg, U<4%
BW3707	异辛烷中 12 种共平面多氯联苯混合溶液标准物质	12 PCBs in isooctane	1.2mL	PCB77, PCB81, PCB105, PCB114, PCB118, PCB123, PCB126, PCB156, PCB157, PCB167, PCB169, PCB189: (190–210) $\mu$ g/kg, U<6%
BW3718	PCBs 溶液标准物质	PCBs standard solution	1mL	PCB single component: 1mg/L, U $\leq$ 5%
BW3720	甲醇中多氯联苯溶液标准物质 (单标)	PCB in methanol	1mL	10 $\mu$ g/g, U=3.2%
BW3720–1	甲醇中多氯联苯溶液标准物质 (单标)	PCB in methanol	5mL	10 $\mu$ g/g, U=3.2%
BW3822	PCB15 溶液标准物质	PCB15 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3823	PCB28 溶液标准物质	PCB28 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3821	PCB52 溶液标准物质	PCB52 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3825	PCB101 溶液标准物质	PCB101 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3820	PCB103 溶液标准物质	PCB103 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3830	PCB105 溶液标准物质	PCB105 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3819	PCB118 溶液标准物质	PCB118 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3828	PCB138 溶液标准物质	PCB138 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3829	PCB153 溶液标准物质	PCB153 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3827	PCB180 溶液标准物质	PCB180 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3826	PCB204 溶液标准物质	PCB204 in isooctane	1mL	10 $\mu$ g/g, U=3.2%
BW3824	PCB209 溶液标准物质	PCB209 in isooctane	1mL	10 $\mu$ g/g, U=3.2%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081124	异辛烷中工业五溴二苯醚混合溶液标准物质	Industrial penta-BDE in isooctane	1.2mL	Total concentration: 50 μg/mL, U=6%
BW3521-2	甲苯中工业五溴二苯醚混合溶液标准物质	Industrial penta-BDE in toluene	1.2mL	Total concentration: 500 μg/mL, U=5%
GBW(E)081125	异辛烷中工业八溴二苯醚混合溶液标准物质	Industrial octa-BDE in isooctane	1.2mL	Total concentration: 50 μg/mL, U=6%
BW3522-2	甲苯中工业八溴二苯醚混合溶液标准物质	Industrial octa-BDE in toluene	1.2mL	Total concentration: 500 μg/mL, U=5%
GBW08709	十溴二苯醚溶液标准物质	Deca-BDE in isooctane/toluene(V/V 9:1)	1.2mL	50 μg/mL, U=1.4%
BW3523-2	甲苯中十溴二苯醚溶液标准物质	Deca-BDE in toluene	1.2mL	500 μg/mL, U=3%

## 增塑剂 /Plasticizer

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081097	丙酮中邻苯二甲酸二(2-乙基己基)酯溶液标准物质 (DEHP)	Di(2-ethylhexyl) phthalate(DEHP) in acetone	1.5mL	992mg/L, U=5%
GBW(E)100221	邻苯二甲酸二甲酯溶液标准物质	Dimethyl phthalate acid ester in methanol	2ml	230.0 μg/mL, U=2.0%
GBW(E)100222	邻苯二甲酸二乙酯溶液标准物质	Diethyl phthalate acid ester in methanol	2ml	238.0 μg/mL, U=2.0%
GBW(E)100223	邻苯二甲酸二(2-乙基己基)酯溶液标准物质	Di(2-ethylhexyl) phthalate acid ester in methanol	2ml	186.0 μg/mL, U=2.0%
GBW(E)100224	邻苯二甲酸正丁酯溶液标准物质	Dibutyl phthalate acid ester in methanol	2ml	195.0 μg/mL, U=2.0%
GBW(E)100225	邻苯二甲酸正壬酯溶液标准物质	n-Dinonyl phthalate acid ester in methanol	2ml	136.0 μg/mL, U=2.0%
GBW(E)100226	邻苯二甲酸丁苄酯溶液标准物质	Butyl benzyl phthalate acid ester in methanol	2ml	165.0 μg/mL, U=2.2%

## 其它 /Others

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW3450	水中甲醛溶液标准物质	Formaldehyde in water	2mL	10mg/mL, U=3%
BW3449	水中乙醇溶液标准物质	Alcohol in water	2mL	80mg/100mL, U=3%
BW3436	水中丙烯腈溶液标准物质	Acrylonitrile in water	2mL	1mg/mL, U=3%
BW3451	甲醇中苯胺溶液标准物质	Anilin in methanol	2mL	1mg/mL, U=3%
GBW(E)081103	乙酸乙酯中2,3-二溴丙酸酯溶液标准物质	2,3-DBPA in ethylacetate	1.5mL	0.982mg/mL, U=5%
★GBW(E)081678	二氯乙酸/甲叔丁醚溶液标准物质	Dichloroacetic acid/methyl-tert-butyl ether	1.5mL	499mg/L, U=5%
★GBW(E)081679	三氯乙酸/甲叔丁醚溶液标准物质	Trichloroacetic acid/methyl-tert-butyl ether	1.5mL	498mg/L, U=8%

## 16. 农药、兽药及化肥 / Fertilizers, Pesticides and Veterinary Drugs

化肥

Fertilizers

农药

Pesticides

兽药

Veterinary Drugs

## 化肥 /Fertilizers

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW06501	尿素中氮、缩二脲成分分析标准物质	Nitrogen and biuret in urea	35g	N: (46.30 ± 0.12)%; biuret: (1.38 ± 0.04); [Ca: 1.1µg/g]; [Mn: 0.2µg/g]; [Fe: 1.1µg/g]; [B: 2.4µg/g]
GBW06502	磷酸二氢铵中磷、氮成分分析标准物质	Phosphorus and nitrogen in ammonium dihydrogen Phosphate	30g	N: (12.08 ± 0.04)%; P(26.85 ± 0.04)µg/g; [Ca: 2.1µg/g]; [Mg: 0.2µg/g]; [Fe: 3.5µg/g]
GBW06503	硫酸钾中钾成分分析标准物质	Potassium in potassium sulfate	40g	K: (44.79 ± 0.12)%; [Ca: 67.6µg/g]; [Mg: 4.0µg/g]; [Mn: 0.2µg/g]; [Fe: 4.7µg/g]

## 农药 / Pesticides

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)060133	有机氯农药混合标准物质	Organochlorine pesticides mixture in toluene/methanol	2ml	α-六六六, β-六六六, r-六六六, δ-六六六, P.P'-DDT, O.P'-DDT, P.P'-DDE, P.P'-DDD: 50.0µg/mL, U=2%
BW3701	异辛烷中 7 种有机氯农药混合溶液标准物质	Seven organochlorinated pesticides in isooctane	1mL	六氯苯 (hexachlorobenzene), 七氯 (heptachlor), 艾氏剂 (aldrin), 环氧七氯 (heptachlor-endo-epoxide), 狄氏剂 (dieldrin), 异狄氏剂 (endrin), 灭蚊灵 (mirex): (200-500) µg/kg, U<5%
BW3702	异辛烷中 15 种有机氯农药混合溶液标准物质	Fifteen organochlorinated pesticides in isooctane	1mL	六氯苯 (hexachlorobenzene), 七氯 (heptachlor), 艾氏剂 (aldrin), 环氧七氯 (heptachlor-endo-epoxide), 狄氏剂 (dieldrin), 异狄氏剂 (endrin), 灭蚊灵 (mirex), α-六六六, β-六六六, r-六六六, δ-六六六, P.P'-DDT, O.P'-DDT, P.P'-DDE, P.P'-DDD: (290-300) µg/kg, U<5%
BW3703	异辛烷中工业氯丹农药溶液标准物质	Industrial toxaphene in isooctane	1.2mL	七氯 (heptachlor), 顺式氯丹 (cis-chlordane), 反式氯丹 (trans-chlordane), 顺式九氯 (cis-nonachlor), 反式九氯 (trans-nonachlor): (100-500) µg/kg, U<14%
BW3704	异辛烷中工业毒杀芬农药溶液标准物质	Toxaphene in isooctane	1mL	Total concentration: (9.5-10.5)ng/kg, U<5%
BW3705	异辛烷中 5 种有机氯农药溶液标准物质	Five organochlorinated pesticides in isooctane	1mL	七氯 (heptachlor), 顺式氯丹 (cis-chlordane), 反式氯丹 (trans-chlordane), 顺式九氯 (cis-nonachlor), 反式九氯 (trans-nonachlor): (290-300) µg/kg, U<5%
GBW(E)060081	甲体六六六农药溶液标准物质	α-BHC in toluene/methanol	2ml	50.0µg/mL, U=1%
GBW(E)060082	乙体六六六农药溶液标准物质	β-BHC in toluene/methanol	2ml	50.0µg/mL, U=1%
GBW(E)060083	丙体六六六农药溶液标准物质	γ-BHC in toluene/methanol	2ml	50.0µg/mL, U=1%
GBW(E)060084	丁体六六六农药溶液标准物质	δ-BHC in toluene/methanol	2ml	50.0µg/mL, U=1%
GBW(E)060102	P.P'-DDT 农药溶液标准物质	p, p'-DDT in toluene/methanol	2ml	50.0µg/mL, U=1%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)060103	O.P' -DDT 农药溶液标准物质	o, p'-DDT in toluene/ methanol	2mL	50.0µg/mL, U=1%
GBW(E)060104	P.P' -DDE 农药溶液标准物质	p, p'-DDE in toluene/ methanol	2ml	50.0µg/mL, U=1%
GBW(E)060105	P.P' -DDD 农药溶液标准物质	p, p'-DDD in toluene/ methanol	2ml	50.0µg/mL, U=1%
GBW(E)080483	甲醇中敌敌畏溶液标准物质	Dichlorvos(DDVP)in methanol	2mL	1.00mg/mL, U=4%
GBW(E)060074	敌敌畏农药溶液标准物质	Dichlorvos(DDVP)in methanol	2mL	(99.8 ± 0.4)µg/mL
GBW(E)080484	甲醇中敌百虫溶液标准物质	Trichlorfon in methanol	1mL	1.00mg/mL, U=4%
GBW(E)081107	甲醇中敌百虫溶液标准物质	Trichlorfon in methanol	1.5mL	0.99mg/mL, U=5%
GBW(E)080486	甲醇中乐果溶液标准物质	Dimethoate in methanol	2mL	1.00mg/mL, U=4%
GBW(E)060075	乐果农药溶液标准物质	Dimethoate in methanol	2mL	(101 ± 2)µg/mL
GBW(E)060615	莠去津 (阿特拉津) 农药标准物质	Atrazine	0.1g	96.5%, U=0.5%
GBW(E)081100	甲醇中莠去津 (阿特拉津) 溶液标准物质	Atrazine in methanol	1.5mL	0.999mg/mL, U=5%
GBW(E)060008	速灭威农药标准物质	Metoclarb	0.1g	99.7%, U=0.3%
GBW(E)060223	西维因 (甲萘威) 农药标准物质	Carbaryl	0.1g	99.9%, U=0.2%
GBW(E)060224	叶蝉散 (异丙威) 农药标准物质	Isoprocarb	0.1g	99.9%, U=0.2%
GBW(E)060225	呋喃丹 (克百威) 农药标准物质	Carbofuran	0.1g	99.9%, U=0.2%
GBW(E)080485	甲醇中对硫磷溶液标准物质	Parathion in methanol	2mL	1.00mg/mL, U=4%
GBW(E)080482	甲醇中甲基对硫磷溶液标准物质	Parathion-methyl in methanol	2mL	1.00mg/mL, U=4%
GBW(E)081142	甲醇中久效磷溶液标准物质	Monocrotophos in methanol	1mL	1.00mg/mL, U=1.0%
GBW06410 GBW(E)060544	水胺硫磷农药标准物质	Isocarbophos	0.1g	99.6%, U=0.4%
GBW(E)061402	马拉硫磷甲醇溶液标准物质	Malathion in methanol	1ml	1.00mg/ml,U=4%
GBW(E)061399	甲胺磷甲醇溶液标准物质	Methamidophos in methanol	1ml	1.00mg/ml,U=1%
GBW(E)081086	甲醇中甲胺磷溶液标准物质	Methamidophos in methanol	1.5mL	998mg/L, U=4.8%
GBW06411 GBW(E)060545	克线磷农药标准物质	Fenamiphos	0.1g	99.5%, U=0.4%
GBW(E)081144	甲醇中克线磷溶液标准物质	Fenamiphos in methanol	1mL	1.00mg/mL, U=1%
GBW06414 GBW(E)060547	噻嗪酮农药标准物质	Buprofezin	0.1g	99.5%, U=0.4%
GBW(E)060618	三唑酮农药标准物质 (粉锈宁)	Triadimefon	0.1g	99.8%, U=0.4%
GBW(E)060613	除草醚农药标准物质	Nitrofen	0.1g	99.9%, U=0.4%
GBW(E)060614	扑草净农药标准物质	Prometryn	0.1g	99.5%, U=0.5%
GBW(E)060619	百菌清农药标准物质	Chlorothalonil	0.1g	99.8%, U=0.4%
GBW06413 GBW(E)060550	双甲脒农药标准物质	Amitraz	0.1g	99.9%, U=0.4%
GBW06417 GBW(E)060551	多效唑农药标准物质	Paclobutrazol	0.1g	99.7%, U=0.4%
GBW(E)060552	2, 4- 滴农药标准物质	2, 4-D	0.1g	99.4%, U=0.4%
GBW(E)081087	甲醇中 2, 4 - D 溶液标准物质	2, 4-D in methanol	1.5mL	990.2mg/L, U=3.3%
GBW(E)060616	2, 4-D 丁酯农药标准物质	2, 4-D butylate	1mL	99.3%, U=0.3%
GBW06412 GBW(E)060546	灭多威农药标准物质	Methomyl	0.1g	99.9%, U=0.3%
GBW(E)060617	五氯硝基苯农药标准物质	Pentachloronitrobenzene	0.1g	98.1%, U=0.6%
GBW06416 GBW(E)060549	氯菊酯农药标准物质	Permethrin	0.1g	99.6%, U=0.4%
GBW(E)060138	溴氰菊酯农药标准物质	Deltamethrin	0.1g	99.7%, U=0.2%
GBW(E)060139	氰氰菊酯农药标准物质	Cypermethrin	0.1g	99.7%, U=0.2%
GBW(E)060140	氰戊菊酯农药标准物质	Fenvalerate	0.1g	100.0%, U=0.2%
GBW06415 GBW(E)060548	联苯菊酯农药标准物质	Bifenthrin	0.1g	99.6%, U=0.4%



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)060889	S- 氰戊菊酯农药标准物质	Esfenvalerate	0.1g	99.6%, U=0.5%
BW3470	甲氰菊酯农药标准物质	Fenpropathrin	0.1g	99.9%, U=0.5%
GBW(E)061099	高效氯氟氰菊酯农药标准物质	Lambda-cyhalothrin	0.1g	99.5%, U=1.0%
BW3584	氟氰戊菊酯甲醇溶液标准物质	Flucythrinate in methanol	1mL	0.10mg/mL, U=5%
GBW(E)061097	顺式氯菊酯农药纯度标准物质	Cis-Permethrin	100mg	99.7% U=0.8%
GBW(E)061098	反式氯菊酯农药纯度标准物质	Trans-Permethrin	100mg	99.8% U=0.5%
GBW(E)060872	氟磺胺草醚农药标准物质	Fomesafen	0.1g	99.7%, U=0.5%
GBW(E)060890	抗蚜威农药标准物质	Pirimicarb	0.1g	99.5%, U=0.4%
★GBW(E)061405	辛硫磷甲醇溶液标准物质	Phoxim in methanol	2ml	1.00mg/ml,U=1%
BW3549	啶硫磷农药标准物质	Quinalphos	0.1g	99.8%, U=0.5%
BW3469-2	杀螟硫磷溶液标准物质	Fenitrothion in methanol	1mL	1.00mg/mL, U=4.0%
GBW(E)061400	甲拌磷甲醇溶液标准物质	Phorate in methanol	1ml	1.00mg/ml,U=1%
GBW(E)060876	乙酰甲胺磷农药标准物质	Acephate	0.1g	99.9%, U=0.2%
GBW(E)081143	甲醇中乙酰甲胺磷溶液标准物质	Acephate in methanol	1mL	1.00mg/mL, U=1.0%
★GBW(E)061408	乙酰甲胺磷丙酮溶液标准物质	acephate in acetone	1ml	1.00mg/ml,U=1.0%
★GBW(E)061403	三唑磷丙酮溶液标准物质	triazophos in acetone	1ml	1.00mg/ml,U=2%
GBW(E)061404	杀扑磷甲醇溶液标准物质	Methidathion in methanol	1ml	1.00mg/ml,U=1%
BW3448	草甘膦农药标准物质	Glyphosate	0.1g	99.9%, U=0.5%
GBW(E)060871	毒死蜱农药标准物质	Chlorpyrifos	0.1g	99.8%, U=0.3%
GBW(E)081141	甲醇中毒死蜱溶液标准物质	Chlorpyrifos in methanol	1mL	1.00mg/mL, U=1.0%
GBW(E)060943	甲基毒死蜱农药纯度标准物质	Chlorpyrifos-methyl	0.2g	99.9%, U=0.5%
GBW(E)061397	二嗪农甲醇溶液标准物质	Diazion in methanol	2ml	1.00mg/ml,U=1%
BW3480	多菌灵农药标准物质	Carbendazim	0.1g	98.9%, U=1.0%
BW3441	多菌灵	Carbendazim	0.1g	99.1%, U=0.8%
GBW(E)060880	噻菌灵农药标准物质	Thiabendazole	0.1g	99.9%, U=0.5%
GBW(E)060886	二甲戊乐灵(二甲戊灵)农药标准物质	Pendimethalin	0.1g	99.9%, U=0.2%
GBW(E)060893	除虫脲农药标准物质	Diffubenzuron	0.1g	99.8%, U=0.6%
GBW(E)060895	灭幼脲农药标准物质	Chlorbenzuron	0.1g	99.8%, U=0.7%
GBW(E)060888	异菌脲农药标准物质	Iprodione	0.1g	99.3%, U=0.5%
GBW(E)060891	噁草酮农药标准物质	Oxadiazon	0.1g	99.9%, U=0.2%
GBW(E)060882	戊唑醇农药标准物质	Tebuconazole	0.1g	99.8%, U=0.5%
GBW(E)060883	三唑醇农药标准物质	Triadimenol	0.1g	99.1%, U=0.4%
GBW(E)060885	烯唑醇农药标准物质	Diniconazole	0.1g	99.8%, U=0.5%
GBW(E)060879	三环唑农药标准物质	Tricyclazole	0.1g	99.6%, U=0.4%
GBW(E)060887	抑霉唑农药标准物质	Imazalil	0.1g	99.7%, U=0.5%
GBW(E)060877	氟乐灵农药标准物质	Trifluralin	0.1g	99.9%, U=0.2%
GBW(E)060878	灭蝇胺农药标准物质	Cyromazine	0.1g	99.9%, U=0.2%
GBW(E)060940	二苯胺农药纯度标准物质	Diphenylamine	0.1g	99.9%, U=0.3%
GBW(E)060892	百草枯农药标准物质	Paraquat	0.1g	99.9%, U=0.5%
GBW(E)060897	敌草快农药标准物质	Diquat	0.1g	99.9%, U=0.3%
GBW(E)060898	使它隆农药标准物质	Fluroxypyr	0.1g	99.7%, U=0.7%
GBW(E)060881	腐霉利农药标准物质	Procymidone	0.1g	99.8%, U=0.3%
BW3478	阿维菌素农药标准物质	Abamectin	0.1g	99.2%, U=0.7%
BW3479	咪鲜胺农药标准物质	Prochloraz	0.1g	98.4%, U=1.0%
GBW(E)060884	绿麦隆农药标准物质	Chlorotoluron	0.1g	99.7%, U=0.6%
BW3484	苯丁锡农药标准物质	Fenbutatin-oxide	0.1g	99.9%, U=0.5%
GBW(E)061100	苄嘧磺隆农药标准物质	Bensulfuron-methyl	0.1g	99.6%, U=0.6%
GBW(E)060899	杀螟丹农药标准物质	Cartap	0.1g	99.8%, U=0.5%
★GBW(E)061393	吡虫啉甲醇溶液标准物质	Imidacloprid in methanol	2ml	1.00mg/ml,U=1%
GBW(E)060875	硫丹农药标准物质	Endosulfan	0.1g	99.8%, U=0.4%
GBW(E)061101	敌草隆农药纯度标准物质	Diuron	0.1g	99.9%, U=0.5%
GBW(E)061102	毒莠定农药纯度标准物质	Picloram	0.1g	99.9%, U=0.5%
GBW(E)061103	硫双威农药纯度标准物质	Thiodicarb	0.1g	99.7%, U=0.7%
GBW(E)061104	杀虫单农药纯度标准物质	Thiosultap-monosodium	0.1g	99.8%, U=0.8%
★GBW(E)061410	敌稗甲醇溶液标准物质	Propanil in methanol	1ml	1.00mg/ml,U=2%
BW3552	灭草松 / 甲醇	Bentazon in methanol	1mL	0.100mg/mL,U=4%
★GBW(E)061415	灭草松乙腈溶液标准物质	Bentazon e in acetonitrile	1ml	1.00mg/ml,U=2%
BW3553	蚜灭磷 / 甲醇	Vamidotion in methanol	1mL	0.100mg/mL,U=5%

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)061388	稻瘟灵甲醇溶液标准物质	Isoprothiolane in methanol	1ml	0.100mg/ml,U=4%
GBW(E)061401	甲基嘧啶磷甲醇溶液标准物质	Pirimiphos-methyl in methanol	1ml	0.100mg/ml,U=5%
★GBW(E)061412	丁草胺甲醇溶液标准物质	Butachlor in methanol	1ml	0.100mg/ml,U=5%
GBW(E)061387	腈苯唑甲醇溶液标准物质	fenbuconazole in methanol	1ml	0.100mg/ml,U=4%
GBW(E)061407	乙硫磷甲醇溶液标准物质	Ethion in methanol	1ml	0.100mg/ml,U=5%
GBW(E)061394	丙硫克百威甲醇溶液标准物质	Benfuracarb in methanol	1ml	0.100mg/ml,U=4%
GBW(E)061391	氟苯嘧啶醇甲醇溶液标准物质	Fenarimol in methanol	1ml	0.100mg/ml,U=5%
GBW(E)061389	敌菌灵乙腈溶液标准物质	Anilazine in acetonitrile	1ml	1.00mg/ml,U=1%
GBW(E)061413	禾草敌甲醇溶液标准物质	Molinate in methanol	1ml	1.00mg/ml,U=4%
BW3564	噻螨酮 / 甲醇	Hexythiazox in methanol	1mL	0.100mg/mL,U=4%
GBW(E)061390	氟硅唑甲醇溶液标准物质	Flusilazole in methanol	1ml	1.00mg/ml,U=2%
BW3566	仲丁威 / 甲醇	Fenobucarb in methanol	1mL	0.100mg/mL,U=4%
BW3567	倍硫磷 / 甲醇	Fenthion in methanol	1mL	0.100mg/mL,U=4%
GBW(E)061392	丙环唑甲醇溶液标准物质	Propiconazol in methanol	1ml	1.00mg/ml,U=4%
GBW(E)061411	丙草胺甲醇溶液标准物质	Pretilachlor in methanol	1ml	1.00mg/ml,U=4%
GBW(E)061396	丁硫克百威甲醇溶液标准物质	Carbosulfan in methanol	1ml	1.00mg/ml,U=4%
BW3571	异丙甲草胺 / 甲醇	Metolachlor in methanol	1mL	0.100mg/mL,U=4%
GBW(E)081108	甲醇中甲草胺溶液标准物质	Alachlor in methanol	1.5mL	0.549mg/mL,U=5%
BW3572	硫线磷 / 甲醇	Cadusafos in methanol	1mL	0.100mg/mL,U=4%
GBW(E)061414	精吡氟禾草灵乙腈溶液标准物质	Fluazifop-p-butyl in acetonitrile	1ml	1.00mg/ml,U=4%
BW3574	炔螨特 / 乙腈	Propargite in acetonitrile	1mL	0.100mg/mL,U=4%
BW3575	灭线磷 / 甲醇	Ethoprophos in methanol	1mL	0.100mg/mL,U=4%
★GBW(E)061395	稻丰散甲醇溶液标准物质	Phenthoate in methanol	2ml	1.00mg/ml,U=4%
BW3577	涕灭威 / 甲醇	Aldicarb in methanol	1mL	0.100mg/mL,U=5%
BW3578	氟胺氰菊酯 / 乙腈	Tau-fluvalinate in acetonitrile	1mL	0.100mg/mL,U=5%
GBW(E)061406	溴螨酯甲醇溶液标准物质	Bromopropylate in methanol	1ml	1.00mg/ml,U=3%
BW3580	吡氟禾草灵 / 甲醇	Fluazifop-butyl in methanol	1mL	0.100mg/mL,U=5%
BW3581	伏杀硫磷 / 甲醇	Phosalone in methanol	1mL	0.100mg/mL,U=5%
GBW(E)061398	伏杀硫磷甲醇溶液标准物质	Phosalone in acetone	1ml	0.100mg/ml,U=5%
BW3582	三氯杀螨醇 / 甲醇	Dicofol in methanol	1mL	0.100mg/mL,U=5%
BW3583	敌瘟磷 / 甲醇	Edifenphos in methanol	1mL	0.100mg/mL,U=5%
GBW(E)060941	三氟羧草醚农药纯度标准物质	Acifluorfen	0.1g	99.7%, U=0.3%
GBW(E)060942	四螨嗪农药纯度标准物质	Clofentezine	0.1g	99.8%, U=0.3%
GBW(E)060974	吡嗪硫磷农药纯度标准物质	Purity of pyridaphenthione	100mg	99.6%,U=0.4%
GBW(E)060975	莎稗磷农药纯度标准物质	Purity of anilofos	100mg	99.8%,U=0.4%
GBW(E)060976	氯苯胺灵农药纯度标准物质	Purity of chlorpropham	100mg	99.7%,U=0.5%
GBW(E)060977	猛杀威农药纯度标准物质	Purity of promecarb	100mg	99.8%,U=0.3%
GBW(E)060978	甲氰菊酯农药纯度标准物质	Purity of fenpropathrin	100mg	99.9%,U=0.3%
GBW(E)060979	腈菌唑农药纯度标准物质	Purity of myclobutanil	100mg	99.9%,U=0.4%
GBW(E)060980	啶虫脒农药纯度标准物质	Purity of acetamiprid	100mg	99.9%,U=0.2%
GBW(E)060981	咪唑乙烟酸农药纯度标准物质	Purity of imazethapyr	100mg	99.7%,U=0.3%
GBW(E)060982	吡氟酰草胺农药纯度标准物质	Purity of diflufenican	100mg	99.9%,U=0.3%
GBW(E)060983	噻草酮农药纯度标准物质	Purity of metribuzin	100mg	99.6%,U=0.9%
GBW(E)060994	亚胺硫磷农药纯度标准物质	Purity of phosmet	100mg	99.1%,U=0.8%
GBW(E)060995	啶硫磷农药纯度标准物质	Purity of phosmet	100mg	99.8%,U=0.2%
GBW(E)060997	醚菊酯农药纯度标准物质	Purity of etofenprox	100mg	99.7%, U=0.3%
GBW(E)060998	西玛津农药纯度标准物质	Purity of ametryn	100mg	99.9%, U=0.4%
GBW(E)060999	莠灭净农药纯度标准物质	Purity of ametryn	100mg	99.3%, U=0.5%
GBW(E)061000	吡嘧磺隆农药纯度标准物质	Purity of triasulfuron	100mg	99.5%, U=0.7%
GBW(E)061001	醚苯磺隆农药纯度标准物质	Purity of triasulfuron	100mg	99.3%, U=0.8%
GBW(E)061002	二氯喹啉酸农药纯度标准物质	Purity of ouinclorac	100mg	99.8%, U
GBW(E)061003	溴鼠灵农药纯度标准物质	Purity of brodifacoum	100mg	99.7%, U=0.9%
GBW(E)081084	甲醇中甲基对硫磷溶液标准物质	Parathion-methyl in methanol	2ml	994mg/L, U=5%

## 兽药 /Veterinary Drugs

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)081085	甲醇中对硫磷溶液标准物质	Parathion in methanol	2ml	999mg/L, U=5%
GBW(E)060901	磺胺嘧啶兽药标准物质	Sulfadiazine	0.1g	99.6%, U=0.4%
GBW(E)081146	甲醇中磺胺嘧啶溶液标准物质	Sulfadiazine in methanol	1mL	1.00mg/mL,U=0.01mg/mL
GBW(E)060902	磺胺甲基嘧啶兽药标准物质	Sulfamerazine	0.1g	99.8%, U=0.2%
GBW(E)081147	甲醇中磺胺甲基嘧啶溶液标准物质	Sulfamerazine in methanol	1mL	1.00mg/mL,U=0.01mg/mL
GBW(E)060903	磺胺吡啶兽药标准物质	Sulfapyridine	0.1g	99.9%, U=0.2%
GBW(E)081148	甲醇中磺胺吡啶溶液标准物质	Sulfapyridine in methanol	1mL	1.00mg/mL,U=0.01mg/mL
GBW(E)060904	磺胺噻唑兽药标准物质	Sulfathiazole	0.1g	99.9%, U=0.5%
GBW(E)060905	磺胺甲噁唑兽药标准物质 (磺胺甲基异噁唑)	Sulfamethoxazole	0.1g	99.8%, U=0.5%
GBW(E)060900	磺胺二甲嘧啶兽药标准物质	Sulfadimidine	0.1g	99.8%, U=0.2%
GBW(E)081145	甲醇中磺胺二甲嘧啶溶液标准物质	Sulfadimidine in methanol	1mL	1.00mg/mL,U=0.01mg/mL
GBW(E)060906	磺胺二甲氧噻嗪兽药标准物质	Sulfadimethoxine	0.1g	99.3%, U=0.5%
★GBW(E)061416	磺胺二甲氧噻嗪甲醇溶液标准物质	Sulfadimethoxine in methanol	1ml	1.00mg/ml,U=4%
GBW(E)060907	氯霉素兽药标准物质	Chloramphenicol	0.1g	99.8%, U=0.2%
GBW(E)060908	甲硝唑兽药标准物质 (甲硝噻唑)	Metronidazole	0.1g	99.9%, U=0.2%
GBW(E)060909	二甲硝咪唑兽药标准物质	Dimetridazole	0.1g	99.9%, U=0.2%
GBW06418	孔雀石绿	Malachite green oxalate salt	0.1g	98.5%, U=0.8%
GBW06419	隐色孔雀石绿	Leucomalachite green	0.1g	99.2%, U=0.6%
GBW06420	结晶紫纯度标准物质	Crystal violet	0.1g	98.1%, U=1.0%
BW3814	隐色结晶紫	Leucocrystal violet	0.1g	99.7%, U=0.5%
BW3815	盐酸克伦特罗 (瘦肉精)	Clenbuterol – hydrochloride	0.1g	99.1%, U=0.8%
GBW(E)061417	盐酸呋喃它酮纯度标准物质	Furaltadone hydrochloride	0.1g	99.8%, U=0.5%
★ GBW10078	5-甲基吗啉-3-氨基-2-恶唑烷酮兽药纯度标准物质	Purity of 5-morpholinomethyl-3-Amino-2-oxazolidinone (AMOZ)	100mg	99.4%, U=0.9%
★ GBW10079	3-氨基-2-恶唑烷酮兽药纯度标准物质	Purity of 3-Amino-2-oxazolidinone (AOZ)	100mg	98.8%, U=0.5%
BW3817	呋喃妥因	Nitroforantoin	0.1g	99.6%, U=0.7%
GBW(E)060944	呋喃西林兽药纯度标准物质	nitrofurural	0.1g	99.8%, U=0.4%
GBW(E)060984	己烯雌酚兽药纯度标准物质	Purity of diethylstilboestrol	100mg	99.7%, U=0.3%
GBW(E)060985	雌二醇兽药纯度标准物质	Purity of estradiol	100mg	99.4%, U=0.6%
GBW(E)100185	噻苯哒唑纯度标准物质	Purity of Thiabendazole	200mg	99.9%, U=0.2%

## **17. 激素及兴奋剂 / Hormones and dopes**

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW(E)100093	甲醇中脱氢异雄酮溶液标准物质	Dehydroandrosterone in methanol	1mL	(1.00 ± 0.02)mg/mL
GBW(E)100095	甲醇中克伦特罗溶液标准物质	Clenbuterol-HCL in methanol	1mL	(1.01 ± 0.02)mg/mL
GBW(E)100098	甲醇中喷布特罗溶液标准物质	Pentubutolol sulfate in methanol	1mL	(1.00 ± 0.02)mg/mL
GBW(E)100106	甲醇中氯丙那林溶液标准物质	Clorprenaline hydrochloride in methanol	1mL	(1.05 ± 0.02)mg/mL



## **18. 蛋白质 & 核酸检测用标准物质 / Protein&nucleic acid**



编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
BW2701	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	1mL	(2.05 ± 0.074)mg/g
BW2701-1	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	1mL	(0.998 ± 0.036)mg/g
BW2701-2	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	1mL	(0.501 ± 0.018)mg/g
BW2701-3	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	1mL	(0.100 ± 0.004)mg/g
BW2701-4	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	1mL	(0.011 ± 0.001)mg/g
★ GBW09801	小牛胸腺 DNA 成分标准物质	Calf thymus DNA	0.5mL	(1006 ± 57) mg/kg
★ GBW09802	鲑鱼精 DNA 成分标准物质	Salmon sperm DNA	0.5mL	1028mg/kg, U=62mg/kg
★ GBW09803	20bp 寡聚 DNA 成分标准物质	20 bp OligoDNA	10uL	176.2mg/kg, U=8mg/kg
★ GBW09804	320bp 寡聚 DNA 成分标准物质	320 bp OligoDNA	10uL	110.8mg/kg, U=5.4mg/kg
★ BW3638	质粒 DNA 含量标准物质	plasmid DNA	10uL	1.41 × 10 <sup>14</sup> cp/uL, U=6.06 × 10 <sup>12</sup> cp/ μ L
GBW(E)100149	乙氨酰乙氨酰酪氨酸精氨酸相对分子质量标准物质	GGYR (Gly-Gly-Tyr-Arg) molecular weight	5mg	451.2 ± 0.6
GBW(E)100150	乙氨酰乙氨酰乙氨酸相对分子质量标准物质	GGG (Glycyl-glycyl-glycine)molecular weight	5mg	189.1 ± 0.6
GBW(E)100151	牛血清白蛋白相对分子质量标准物质	Bovine serum albumin molecular weight	20mg	66446 ± 32
GBW(E)100152	胰蛋白酶抑制剂相对分子质量标准物质	Aprotinin molecular weight	5mg	6511 ± 3
GBW(E)100153	细胞色素 C 相对分子质量标准物质	Cytochrome C molecular weight	5mg	12355 ± 16
BW3624	马心肌红蛋白相对分子质量标准物质	Myoglobin from horse heart relative molecular weight	5mg	16951 ± 16
BW3625	糖化血红蛋白成分标准物质 (高)	Glycated hemoglobin	10 μ L	(11.6 ± 1.9)%
BW3626	糖化血红蛋白成分标准物质 (低)	Glycated hemoglobin	10 μ L	(5.0 ± 0.9)%
GBW09815	牛血清白蛋白成分标准物质	Bovine serum albumin	200mg	(0.963 ± 0.038)g/g
BW3627-1	牛血清白蛋白溶液标准物质 - 高	Bovine serum albumin solution	8mL	(69.4 ± 4.6)g/L
BW3627-2	牛血清白蛋白溶液标准物质 - 中	Bovine serum albumin solution	8mL	(34.7 ± 2.2)g/L
BW3627-3	牛血清白蛋白溶液标准物质 - 低	Bovine serum albumin solution	8mL	(16.9 ± 1.1)g/L
★ BW3627-4	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	0.050mg/mL, U=0.004mg/mL
★ BW3627-5	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	0.107mg/mL, U=0.007mg/mL
★ BW3627-6	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	0.2mg/mL, U=0.02mg/mL
★ BW3627-7	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	0.50mg/mL, U=0.04mg/mL
★ BW3627-8	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	1.01mg/mL, U=0.07mg/mL
★ BW3627-9	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	2.0mg/mL, U=0.2mg/mL

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ BW3627-10	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	5.0mg/mL, U=0.4mg/mL
★ BW3627-11	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	8.0mg/mL, U=0.6mg/mL
★ BW3627-12	牛血清白蛋白溶液标准物质 - 低	Bovine Serum Albumin Solution	2ml	10.0mg/mL, U=0.7mg/mL
BW3621	C 肽标准物质	C peptide	11 μg	(11.2 ± 2.4) μg
BW3622	人血管紧张素 II 相对分子质量标准物质	Human angiotension II relative molecular Weight	5mg	1045.5 ± 1.2
GBW09816	胰岛素 (猪) 成分标准物质	Insulin ( Porcine )	15mg	(0.892 ± 0.040)g/g
★ GBW10070-10073	转基因 BT63 水稻种子粉基体标准物质	Genetically Modified BT63 Rice Seed Powder	5*1g/ 瓶	GBW10070: ( 0.50 ± 0.04 ) % ( 质量分数标准值 ) ; ( 0.51 ± 0.07 ) % ( 拷贝分数参考值 ) GBW10071: ( 1.01 ± 0.07 ) % ( 质量分数标准值 ) ; ( 1.00 ± 0.13 ) % ( 拷贝分数参考值 ) GBW10072: ( 2.01 ± 0.11 ) % ( 质量分数标准值 ) ; ( 1.91 ± 0.25 ) % ( 拷贝分数参考值 ) GBW10073: ( 5.03 ± 0.35 ) % ( 质量分数标准值 ) ; ( 4.31 ± 0.58 ) % ( 拷贝分数参考值 ) 空白: 质量分数 <0.08%, 拷贝分数 ( 0.0014 ± 0.0015 )
★ BW4014	转基因水稻 BT63 ( TT51-1 ) 质粒分子	Plasmidic DNA Containing BT63 (TT51-1) Rice DNA Fragments	500 μL/ 瓶	测序比值 1.00, U=0.07%;PCR 比值 1.00, U=0.11%
★ BW4015	转基因玉米 NK603 质粒分子	Plasmidic DNA Containing NK603 Maize DNA Fragments	500 μL/ 瓶	测序比值 1.00, U=0.04%;PCR 比值 0.97, U=0.09%; 浓度 2.40 × 10 <sup>8</sup> copy/ μL,U=0.14 × 10 <sup>8</sup> copy/ μL
★ GBW10074-10077	转基因克螟稻 2 号水稻种子粉基体标准物质	Genetically Modified Bt Gene Kemingdao 2 Seed Powder	4*1g/ 瓶	0.5%, U=0.08% 0.99%, U=0.11% 1.98%, U=0.16% 4.96%, U=0.32%

## 19. 气体标准物质 /Gases

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
★ GBW 06326	氦气中一氧化碳	Carbon monoxide in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
★ GBW 06327	氦气中二氧化碳	Carbon dioxide in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
★ GBW 06329	氦气中四氟化碳	Four carbon fluoride in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
★ GBW 06328	氦气中二氧化硫	Sulfur dioxide in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
★ GBW 06330	氦气中氟化亚硫酸	Thionyl fluoride in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
★ GBW 06331	氦气中氟化硫酸	Sulfuryl fluoride in Helium	4L	( 50.0 ~ 100 ) × 10 <sup>-6</sup> Urel=1.5%
GBW 08101	氮中甲烷	Methane in nitrogen	2L, 4L, 8L	10 × 10 <sup>-6</sup> U=1%
GBW 08102	氮中甲烷	Methane in nitrogen	2L, 4L, 8L	50 × 10 <sup>-6</sup> U=1%
GBW 08103	氮中甲烷	Methane in nitrogen	2L, 4L, 8L	100 × 10 <sup>-6</sup> U=1%
GBW 08104	氮中甲烷	Methane in nitrogen	2L, 4L, 8L	500 × 10 <sup>-6</sup> U=1%
GBW 08105	氮中甲烷	Methane in nitrogen	2L, 4L, 8L	1000 × 10 <sup>-6</sup> U=1%
GBW 08106	氮中一氧化碳	Carbon monoxide in Nitrogen	2L, 4L, 8L	10 × 10 <sup>-6</sup> U=1%
GBW 08107	氮中一氧化碳	Carbon monoxide in Nitrogen	2L, 4L, 8L	50 × 10 <sup>-6</sup> U=1%
GBW 08108	氮中一氧化碳	Carbon monoxide in Nitrogen	2L, 4L, 8L	100 × 10 <sup>-6</sup> U=1%
GBW 08109	氮中一氧化碳	Carbon monoxide in Nitrogen	2L, 4L, 8L	500 × 10 <sup>-6</sup> U=1%
GBW 08110	氮中一氧化碳	Carbon monoxide in Nitrogen	2L, 4L, 8L	1000 × 10 <sup>-6</sup> U=1%
GBW 08111	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	10 × 10 <sup>-6</sup> U=1%
GBW 08112	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	50 × 10 <sup>-6</sup> U=1%
GBW 08113	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	100 × 10 <sup>-6</sup> U=1%
GBW 08114	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	500 × 10 <sup>-6</sup> U=1%
GBW 08115	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	1000 × 10 <sup>-6</sup> U=1%
GBW 08116	氮中一氧化氮	Nitrogen monoxide in Nitrogen	2L, 4L, 8L	50~2000 U=1%
GBW 08117	氮中氧	Oxygen in Nitrogen	2L, 4L, 8L	21 × 10 <sup>-2</sup> U=0.1%
GBW 08118	氮中二氧化碳	Carbon dioxide in Nitrogen	2L, 4L, 8L	1 × 10 <sup>-2</sup> U=1%
GBW 08119	空气中甲烷	Methane in Air	2L, 4L, 8L	(1~100) × 10 <sup>-6</sup> U=1%
GBW 08120	空气中一氧化碳	Carbon monoxide in Air	2L, 4L, 8L	(5~50) × 10 <sup>-6</sup> U=1%
GBW 08123	空气中甲烷	Methane in Air	2L, 4L, 8L	(0.5~3) × 10 <sup>-2</sup> U=1%
GBW 08124	氮中六氟化硫	Sulfur hexafluoride in nitrogen	2L, 4L, 8L	(5~6000) × 10 <sup>-6</sup> U=1%
GBW 08125	氮中乙烷	Ethane in nitrogen	2L, 4L, 8L	(1~10) × 10 <sup>-6</sup> U=1.5%
GBW 08126	氮中乙烷	Ethane in nitrogen	2L, 4L, 8L	(10~10000) × 10 <sup>-6</sup> U=1%
GBW 08127	氮中乙烯	Ethane in nitrogen	2L, 4L, 8L	(1~10) × 10 <sup>-6</sup> U=1.5%
GBW 08128	氮中乙烯	Ethane in nitrogen	2L, 4L, 8L	(10~10000) × 10 <sup>-6</sup> U=1%
GBW 08129	氮中丙烯	Propylene in nitrogen	2L, 4L, 8L	(1~10) × 10 <sup>-6</sup> U=1.5%
GBW 08130	氮中丙烯	Propylene in nitrogen	2L, 4L, 8L	(10~10000) × 10 <sup>-6</sup> U=1%
GBW 08131	氮中甲烷、乙烷、丙烷、 乙烯、异丁烷	Methane, ethane, propane, ethylene, iso-butane in nitrogen	2L, 4L, 8L	CH <sub>4</sub> 1000 × 10 <sup>-6</sup> U=1.5% C <sub>2</sub> H <sub>6</sub> 1000 × 10 <sup>-6</sup> U=1.5% C <sub>3</sub> H <sub>8</sub> 1000 × 10 <sup>-6</sup> U=1.5% C <sub>2</sub> H <sub>4</sub> 10 × 10 <sup>-6</sup> U=1.5% i-C <sub>4</sub> H <sub>10</sub> 10 × 10 <sup>-6</sup> U=1.5%
GBW 08132	氮中甲烷、乙烷、丙烷、 丙烯	Methane, ethane, propane, propylene, iso-butane in nitrogen	2L, 4L, 8L	CH <sub>4</sub> 1000 × 10 <sup>-6</sup> C <sub>2</sub> H <sub>6</sub> 1000 × 10 <sup>-6</sup> C <sub>3</sub> H <sub>8</sub> 1000 × 10 <sup>-6</sup> C <sub>3</sub> H <sub>6</sub> 10 × 10 <sup>-6</sup> U=1.5 %

编号 /Number	中文名称	Name	规格 /Units	特性量 /Properties
GBW 08133	氮中丙烷、一氧化碳	Propane, carbon monoxide in nitrogen	2L, 4L, 8L	$C_3H_8$ $800 \times 10^{-6}$ CO $1.60 \times 10^{-2}$ U=1%
GBW 08134	氮中丙烷	Propane in nitrogen	2L, 4L, 8L	$800 \times 10^{-6} \sim 1.30 \times 10^{-2}$ U=1%
GBW 08135	氮中氧	Oxygen in nitrogen	2L, 4L, 8L	$1000 \times 10^{-6} \sim 7 \times 10^{-2}$ U=1~0.5%
GBW 08136	氮中丙烷、一氧化碳	Propane, carbon monoxide in nitrogen	2L, 4L, 8L	$C_3H_8$ $800 \times 10^{-6} \sim 1.2 \times 10^{-2}$ CO $1.5 \times 10^{-2} \sim 8 \times 10^{-2}$ U=1%
GBW 08137	氮中一氧化碳	Carbon monoxide in nitrogen	2L, 4L, 8L	$0.5 \times 10^{-2} \sim 8 \times 10^{-2}$ U=1%
GBW 08138	空气中二氧化碳	Carbon dioxide in Air	2L, 4L, 8L	$330 \times 10^{-6} \sim 370 \times 10^{-6}$ U=0.3%
GBW 08139	空气中甲烷	Methane in Air	2L, 4L, 8L	$1.5 \times 10^{-6} \sim 10 \times 10^{-6}$ U=0.6%
★ GBW 08183	氮气中乙醇	Ethanol in nitrogen	2L, 4L, 8L	$(20 \sim 500) \times 10^{-6}$ U=1%
GBW 08201	二氧化硫渗透管	Sulfuric dioxide permeation tube	/	(0.37~1.4) mg/min, 25°C U=1%
GBW 08202	二氧化氮渗透管	Nitrogen dioxide permeation tube	/	(0.6~2.0) mg/min, 25°C U=1%
GBW 08203	硫化氢渗透管	Hydrogen sulfide permeation tube	/	(0.1~1.0) mg/min, 25°C U=2%
GBW 08204	氨渗透管	Ammonia permeation tube	/	(0.1~1.0) mg/min, 25°C U=2%
GBW 08205	氯渗透管	Chlorine permeation tube	/	(0.2~2.0) mg/min, 25°C U=2%
GBW 09401	氮中氧、二氧化碳	Oxygen, carbon dioxide in nitrogen	2L, 4L, 8L	O <sub>2</sub> $21 \times 10^{-2}$ CO <sub>2</sub> $5 \times 10^{-2} \sim 12 \times 10^{-2}$ U=0.6%
GBW 09402	氮中氧、一氧化碳、二氧化碳	Oxygen, carbon dioxide, carbon monoxide in nitrogen	2L, 4L, 8L	O <sub>2</sub> $21 \times 10^{-2}$ CO 0.1% CO <sub>2</sub> 0.2% U=0.6%
GBW 09403	氮中氧、氦、一氧化碳	Oxygen, helium, carbon monoxide in nitrogen	2L, 4L, 8L	O <sub>2</sub> $21 \times 10^{-2}$ He 10% CO 0.2% U=0.6%
GBW 09404	氮中氧、氧化亚氮、一氧化碳	Oxygen, nitrous oxide, carbon monoxide in nitrogen	2L, 4L, 8L	O <sub>2</sub> $21 \times 10^{-2}$ N <sub>2</sub> O 15% CO <sub>2</sub> 0.2% U=0.6
GBW 06302	空气中异丁烷	iso-Butane in Air	2L, 4L, 8L 2L, 4L, 8L	$1 \times 10^{-6} \sim 100 \times 10^{-6}$ U=2 $100 \times 10^{-6} \sim 1 \times 10^{-2}$ U=1%
GBW 06303	甲烷中氮、二氧化碳、正丁烷	Nitrogen, carbon dioxide, n-butane in methane	2L, 4L, 8L	O <sub>2</sub> $600 \times 10^{-6} \sim 20.0 \times 10^{-2}$ CO <sub>2</sub> $200 \times 10^{-6} \sim 20.0 \times 10^{-2}$ n-C <sub>4</sub> H <sub>10</sub> $300 \times 10^{-6} \sim 9.0 \times 10^{-3}$ U=1%
GBW 06304	氮中氧、乙烷、正丁烷	Oxygen, ethane, n-butane in nitrogen	2L, 4L, 8L	O <sub>2</sub> $400 \times 10^{-6} \sim 2.50 \times 10^{-3}$ C <sub>2</sub> H <sub>6</sub> $100 \times 10^{-6} \sim 20.0 \times 10^{-2}$ n-C <sub>4</sub> H <sub>10</sub> $500 \times 10^{-6} \sim 9.50 \times 10^{-3}$ U=1%
GBW 06305	甲烷中丙烷、异丁烷、正丁烷	Propane, iso-butane, n-butane in methane	2L, 4L, 8L	C <sub>3</sub> H <sub>8</sub> $100 \times 10^{-6} \sim 7.00 \times 10^{-2}$ i-C <sub>4</sub> H <sub>10</sub> $100 \times 10^{-6} \sim 8.50 \times 10^{-3}$ n-C <sub>4</sub> H <sub>10</sub> $100 \times 10^{-6} \sim 8.50 \times 10^{-3}$ U=1%

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GBW 08150	氮中氧化亚氮	Nitrous oxide in nitrogen	2L, 4L, 8L	$0.35 \times 10^{-6}$ U=5%
GBW 08151	氮中氧化亚氮	Nitrous oxide in nitrogen	2L, 4L, 8L	$10 \times 10^{-6}$ U=3%
GBW 08152	氮中氧化亚氮	Nitrous oxide in nitrogen	2L, 4L, 8L	$50 \times 10^{-6}$ U=1%
GBW 08153	氮中氧化亚氮	Nitrous oxide in nitrogen	2L, 4L, 8L	$200 \times 10^{-6}$ U=1%
GBW 08154	空气中氧化亚氮	Nitrous oxide in Air	2L, 4L, 8L	$0.35 \times 10^{-6}$ U=5%
GBW 08155	空气中氧化亚氮	Nitrous oxide in Air	2L, 4L, 8L	$10 \times 10^{-6}$ U=3%
GBW 08156	空气中氧化亚氮	Nitrous oxide in Air	2L, 4L, 8L	$50 \times 10^{-6}$ U=1%
GBW 08157	空气中氧化亚氮	Nitrous oxide in Air	2L, 4L, 8L	$200 \times 10^{-6}$ U=1%
GBW 08206	乙醇扩散管	Ethanol diffusion tube	/	14.5mg/min U=2% 27.1mg/min U=2%
GBW 08207	水扩散管	Water diffusion tube	/	5.51mg/min U=4% 9.43mg/min U=3%
GBW 08208	苯扩散管	Benzene diffusion tube	/	37.4mg/min U=2.5%
GBW 08209	甲苯扩散管	Toluene diffusion tube	/	3.72mg/min U=2.5% 8.44mg/min U=2.5%
GBW 08210	乙苯扩散管	Ethyl benzene diffusion tube	/	6.38mg/min U=2.5% 14.7mg/min U=2.5%
GBW 08211	邻二甲苯扩散管	O-xylene diffusion tube	/	2.48mg/min U=3% 6.77mg/min U=2.5%
GBW 06309	高纯氩中氮	Nitrogen in Argon	2L, 4L, 8L	$100 \times 10^{-6}$ U=1% $1000 \times 10^{-6}$ U=1% $10 \times 10^{-2}$ U=1%
GBW 06310	高纯氩中氧	Oxygen in Argon	2L, 4L, 8L	$1000 \times 10^{-6}$ U=1% $10 \times 10^{-2}$ U=1%
GBW 06311	高纯氩中氢	Hydrogen in Argon	2L, 4L, 8L	$5 \times 10^{-6}$ U=2% $1000 \times 10^{-6}$ U=1% $10 \times 10^{-2}$ U=1%
GBW 06312	高纯氩中一氧化碳、二氧化碳、甲烷	Carbon monoxide, carbon dioxide, methane in Argon	2L, 4L, 8L	CO $10 \times 10^{-6}$ CO <sub>2</sub> $10 \times 10^{-6}$ CH <sub>4</sub> $10 \times 10^{-6}$ U=1%
GBW 08140	氮中正戊烷	n-Pentane in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $2000 \times 10^{-6}$ U=3%
GBW 08141	氮中异戊烷	iso-Pentane in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5 % $10 \times 10^{-6}$ ~ $2000 \times 10^{-6}$ U=3%
GBW 08142	氮中正、异戊烷	n-Pentane , iso-pentane, in nitrogen	2L, 4L, 8L	$10 \times 10^{-6}$ ~ $2000 \times 10^{-6}$ U=3%
GBW 08143	氮中正丁烯 -1	1-Butylene in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%
GBW 08144	氮中异丁烯	iso-Butylene in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%
GBW 08145	氮中顺丁烯 -2	cis-Butylene in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%
GBW 08146	氮中反丁烯 -2	trans-Butylene in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%
GBW 08147	氮中 1, 2 丁二烯	1,2-Butadiene in nitrogen	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%
GBW 08148	氮中 1, 3 丁二烯	1.3-Butadiene in nitroge	2L, 4L, 8L	$1 \times 10^{-6}$ ~ $10 \times 10^{-6}$ U=5% $10 \times 10^{-6}$ ~ $500 \times 10^{-6}$ U=3%



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GBW 08149	氮中正、异、顺、反、1,2丁二烯、1,3丁二烯	Butylene, iso-butylene, cis-butylene, trans-butylene, 1,2-Butadiene, 1,3-butadiene in nitrogen	2L, 4L, 8L	$10 \times 10^{-6} \sim 500 \times 10^{-6} U=3\%$
GBW08158	氮中一氧化碳、二氧化碳、丙烷	Carbon monoxide, carbon dioxide, propane in nitrogen	2L, 4L, 8L	CO: 0.5~8% CO <sub>2</sub> : 4~16% C <sub>3</sub> H <sub>8</sub> : 0.02~1.5% U=1%
GBW08159	氮中一氧化碳、二氧化碳、丙烷、氧	Carbon monoxide, carbon dioxide, propane, oxygen in nitrogen	2L, 4L, 8L	CO: 0.5~8% CO <sub>2</sub> : 4~16% C <sub>3</sub> H <sub>8</sub> : 0.02~1.2% O <sub>2</sub> : 0.5~10% U=1%
GBW08160	氮中一氧化碳、二氧化碳、丙烷、一氧化氮	Carbon monoxide, carbon dioxide, propane, nitrogen monoxide in nitrogen	2L, 4L, 8L	CO: 0.05~8% CO <sub>2</sub> : 0.5~16% C <sub>3</sub> H <sub>8</sub> : 0.005~1.2% NO: 0.005~0.3% U=1%
GBW 08161	氮中苯、甲苯、乙苯、邻二甲苯、间二甲苯、对二甲苯、苯乙烯、乙酸丁酯、正己烷和十一烷	Benzene, toluene, ethyl benzene, o-xylene, m-xylene, p-xylene, styrene, butyl acetate, n-hexane, n-undecane in nitrogen.	2L, 4L, 8L	$1 \times 10^{-6} U=2.8\%$
GBW 08162	氮中苯、甲苯、乙苯、邻二甲苯、间二甲苯、对二甲苯、苯乙烯、乙酸丁酯、正己烷和十一烷	Benzene, toluene, ethyl benzene, o-xylene, m-xylene, p-xylene, styrene, butyl acetate, n-hexane, n-undecane in nitrogen.	2L, 4L, 8L	$5 \times 10^{-6} U=2.0\%$
GBW 08163	氮中苯、甲苯、乙苯、邻二甲苯、间二甲苯、对二甲苯、苯乙烯、乙酸丁酯、正己烷和十一烷	Benzene, toluene, ethyl benzene, o-xylene, m-xylene, p-xylene, styrene, butyl acetate, n-hexane, n-undecane in nitrogen.	2L, 4L, 8L	$25 \times 10^{-6} U=1.7\%$
GBW08164	氮中氟利昂 F22	Freon 22 in nitrogen	2L, 4L, 8L	$10 \times 10^{-6} U=1\%$
GBW08165	氮中氟利昂 F22	Freon 22 in nitrogen	2L, 4L, 8L	$25 \times 10^{-6} U=1\%$
GBW08166	氮中氟利昂 F22	Freon 22 in nitrogen		$50 \times 10^{-6} U=1\%$
GBW08167	氮中氟利昂 F12	Freon 12 in nitrogen	2L, 4L, 8L	$10 \times 10^{-6} U=1\%$
GBW08168	氮中氟利昂 F12	Freon 12 in nitrogen	2L, 4L, 8L	$25 \times 10^{-6} U=1\%$
GBW08169	氮中氟利昂 F12	Freon 12 in nitrogen	2L, 4L, 8L	$50 \times 10^{-6} U=1\%$
GBW08170	氮中氯乙烯	Vinyl chloride in nitrogen	2L, 4L, 8L	$10 \times 10^{-6} U=1\%$
GBW08171	氮中氯乙烯	Vinyl chloride in nitrogen	2L, 4L, 8L	$25 \times 10^{-6} U=1\%$
GBW08172	氮中氯乙烯	Vinyl chloride in nitrogen	2L, 4L, 8L	$50 \times 10^{-6} U=1\%$
GBW08173	氮中四氟化碳	Carbor tetrafluoride in nitrogen	2L, 4L, 8L	$20 \times 10^{-6} \sim 100 \times 10^{-6} U=1\%$
GBW08174	空气中四氟化碳	Carbor tetrafluoride in Air	2L, 4L, 8L	$20 \times 10^{-6} \sim 100 \times 10^{-6} U=1\%$
GBW08175	氮中六氟化硫	Sulfur hexafluoride in nitrogen	2L, 4L, 8L	$0.2 \times 10^{-6} \sim 1 \times 10^{-6} U=1.3\%$
GBW08176	空气中六氟化硫	Sulfur hexafluoride in Air	2L, 4L, 8L	$1 \times 10^{-6} \sim 100 \times 10^{-6} U=1\%$
GBW08212	苯乙烯扩散管	Styrene diffusion tube	/	2.85 mg/min U=1.8%
GBW08213	硝基苯扩散管	Nitrobenzene diffusion tube	/	7.29 mg/min U=2.3%
GBW08214	氯苯扩散管	Phenyl chloride diffusion tube	/	1.12 mg/min U=2.3%
GBW08215	正己烷扩散管	n-Hexane diffusion tube	/	2.85 mg/min U=1.9%
GBW08216	十一烷扩散管	n-Undecane diffusion tube	/	2.12 mg/min U=2.3%