

Reagecon

Fertilizers



Agriculture Standards

Reagents and standards for the Fertilizers Industry



As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 1. Dr George W. Latimer, Jr.

AOAC Official Method 955.01 Neutralising Value for Liming Materials

Chapter	Product No.	Description	Pack Size
1.1.04A.a	S20251	Analytical Volumetric Solution Sodium Hydroxide 0.25N, 0.25M	1L
1.1.04A.b	H20501	Analytical Volumetric Solution Hydrochloric Acid 0.5N, 0.5M	1L

AOAC Official Method 948.01 Sulfide Sulfur in Calcium Silicate Slags

Chapter	Product No.	Description	Pack Size
1.2.02A.c	S20101	Analytical Volumetric Solution Sodium Hydroxide 0.1N, 0.1M	1L
1.2.02A.d	H20101	Analytical Volumetric Solution Hydrochloric Acid 0.1N, 0.1M	1L
1.2.02A.e	1055102	European Pharmacopoeia Reagent Indicator Solution Methyl Red 0.02%	100ml

AOAC Official Method 962.01 Calcium and Magnesium in Liming Materials

Chapter	Product No.	Description	Pack Size
1.4.01A.a	1100	pH Buffer Solution pH10.00 ± 0.01 @20°C	1L
1.4.01A.d	EBTNAACL105	Eriochrome Black T Indicator, 1% (w/w) in Sodium Chloride	500ml

AOAC Official Method 965.03 Iron in Liming Materials

Chapter	Product No.	Description	Pack Size
1.5.03A.a	H22001	Analytical Volumetric Solution Hydrochloric Acid 2.0N, 2.0M	1L

AOAC Official Method 955.04 Nitrogen (Total) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.4.03A.i	MTR06025	Indicator Methyl Red Alcoholic Solution 0.1%	250ml
2.4.03A.j	H20501	Analytical Volumetric Solution Hydrochloric Acid 0.5N, 0.5M	1L
2.4.03A.j	H20101	Analytical Volumetric Solution Hydrochloric Acid 0.1N, 0.1M	1L
2.4.03A.k	S20101	Analytical Volumetric Solution Sodium Hydroxide 0.1N, 0.1M	1L

AOAC Official Method 971.01 Potassium in Fertilisers

Chapter	Product No.	Description	Pack Size
2.5.06B.a	NH4C2O41	Ammonium Oxalate 4% w/v	1L

AOAC Official Method 949.02 Boron (Acid-Soluble) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.02B.c	MTR06025	Indicator Methyl Red Alcoholic Solution 0.1%	250ml

AOAC Official Method 982.01 Boron (Acid- and Water-Soluble) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.04A.f	A110VV1	Acetic Acid 10% v/v	1L

AOAC Official Method 928.02 Chlorine (Water-Soluble) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.09A.b	PCS5	Indicator Solution Potassium chromate, 5%	500ml

AOAC Official Method 965.11 Cobalt in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.10A.d	S21001	Analytical Volumetric Solution Sodium Hydroxide 1.0N, 1.0M	1L

AOAC Official Method 941.01 Copper in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.12A.c	1085103	European Pharmacopoeia Reagent Starch Solution	100ml

AOAC Official Method 942.01 Copper in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.13A.a	T20101	Analytical Volumetric Solution Sodium Thiosulphate 0.1N, 0.1M	1L
2.6.13A.b	1085103	European Pharmacopoeia Reagent Starch Solution	100ml
2.6.13A.c	BRCG0105	Bromocresol Green Indicator, 0.1% (w/v) Aqueous Solution	500ml

AOAC Official Method 967.01 Iron in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.14A.a	1032101	European Pharmacopoeia Reagent Diphenylamine Solution	1L
2.6.14A.c	KC20016F	Analytical Volumetric Solution Potassium Dichromate 0.1N, 0.0167M	1L
2.6.14A.e	1085001	European Pharmacopoeia Reagent Stannous Chloride Solution	100ml

AOAC Official Method 983.03 Iron (Chelated) in Iron Chelate Concentrates

Chapter	Product No.	Description	Pack Size
2.6.16B.a	S20501	Analytical Volumetric Solution Sodium Hydroxide 0.5N, 0.5M	1L
2.6.16B.c	H20501	Analytical Volumetric Solution Hydrochloric Acid 0.5N, 0.5M	1L

AOAC Official Method 964.01 Magnesium (Acid-Soluble) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.18A.b	1069801	European Pharmacopoeia Reagent Potassium ferrocyanide Solution	100ml
2.6.18A.c	3001300	European Pharmacopoeia Reagent 0.1M Ferric ammonium sulphate	1L

AOAC Official Method 940.02 Manganese (Acid-Soluble) in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.23A	1070902	European Pharmacopoeia Reagent Potassium Permanganate	1L

AOAC Official Method 973.01 Zinc in Fertilisers

Chapter	Product No.	Description	Pack Size
2.6.32A.c	H20501	Analytical Volumetric Solution Hydrochloric Acid 0.5N, 0.5M	1L
2.6.32A.c	H20251	Analytical Volumetric Solution Hydrochloric Acid 0.25N, 0.25M	1L
2.6.32A.e	AT21F	Analytical Volumetric Solution Ammonium Thiocyanate 1.0N, 1.0M	1L

AOAC Official Method 973.04 pH of Peat

Chapter	Product No.	Description	Pack Size
2.7.05A.e	CACL101	Analytical Volumetric Solution Calcium Chloride 1.0 M	1L
2.7.05A.e	CACL20011	Analytical Volumetric Solution Calcium chloride 0.02N, 0.01M	1L

AOAC Official Method 973.09 Cation Exchange Capacity for Peat

Chapter	Product No.	Description	Pack Size
2.7.13B.a	H20501	Analytical Volumetric Solution Hydrochloric Acid 0.5N, 0.5M	1L
2.7.13B.d	S20101	Analytical Volumetric Solution Sodium Hydroxide 0.1N, 0.1M	1L

AOAC Official Method 994.16 pH Measurement of Mineral Soils

Chapter	Product No.	Description	Pack Size
2.8.01C.a	Y0018	Deionised water	25L
2.8.01C.b	1040	pH Buffer Solution pH4.00 ± 0.01 @20°C .	1L
2.8.01C.b	1070	pH Buffer Solution pH7.00 ± 0.01 @20°C	1L
2.8.01C.b	1100	pH Buffer Solution pH10.00 ± 0.01 @20°C	1L

AOAC Official Method 994.17 pH Measurement of Saline-Sodic Soils

Chapter	Product No.	Description	Pack Size
2.8.02C.a	Y0018	Deionised water	25L
2.8.02C.b	1040	pH Buffer Solution pH4.00 ± 0.01 @20°C .	1L
2.8.02C.b	1070	pH Buffer Solution pH7.00 ± 0.01 @20°C	1L
2.8.02C.b	1100	pH Buffer Solution pH10.00 ± 0.01 @20°C	1L

AOAC Official Method 994.18 pH Measurement of Organic Soils

Chapter	Product No.	Description	Pack Size
2.8.03C.a	Y0018	Deionised water	25L
2.8.03C.b	1040	pH Buffer Solution pH4.00 ± 0.01 @20°C .	1L
2.8.03C.b	1070	pH Buffer Solution pH7.00 ± 0.01 @20°C	1L
2.8.03C.b	1100	pH Buffer Solution pH10.00 ± 0.01 @20°C	1L

Reagecon's Kjeldahl Standards and Reagents

Product No.	Description	Pack Size
SUFMT5	Gerber Test Sulphuric Acid FMT d. 1.815-1.825	5L
SUFMT25	Gerber Test Sulphuric Acid FMT d. 1.815-1.825	25L
SUFMTJ	Gerber Test Sulphuric Acid FMT d. 1.815-1.825	2.5L
BOA25	Kjeldahl Reagent 2% w/v Boric Acid solution without indicator	5L
S30WW5	Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide	5L
S30WWLN	Kjeldahl Reagent 30% w/w (40% w/v) Sodium Hydroxide	5L
KJR015	Kjeldahl Reagent 4% w/v Boric Acid solution with indicator	5L
BOA4	Kjeldahl Reagent 4% w/v Boric Acid solution without indicator	5L
ST840	Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate	25L
ST841	Kjeldahl Reagent 40% w/v Sodium Hydroxide/8% Sodium Thiosulphate	5L
WTR045	Kjeldahl Reagent Barium Chloride solution 10% w/v	5L
BOAI225	Kjeldahl Reagent Boric Acid 2% with indicator - 25L	25L
BOA3310	Kjeldahl Reagent Boric Acid 3.3% solution	10L
PFS1	Ferroun Indicator solution	100ml
FEA25	Iron Alum (Volhard) Indicator solution	250ml
MTR05025	Methyl Orange Indicator Alcoholic solution 0.1%	250ml
IPT01H	Phenolphthalein Indicator Solution 0.1%	500ml
IPT05F	Phenolphthalein Indicator Solution 0.5%	1L
IPT05W	Phenolphthalein Indicator Solution 0.5%	2.5L
IPT10H	Phenolphthalein Indicator Solution 1%	500ml
IPT10W	Phenolphthalein Indicator Solution 1%	2.5L
IPT1025	Phenolphthalein Indicator Solution 1%	250ml
IPT16W	Phenolphthalein Indicator Solution 1.6%	2.5L
PCS5	Potassium chromate, 5% Indicator solution	500ml
TB04F	Thymol Blue Indicator Alcoholic Solution 0.04%	500ml
NPD03	Phosphatase Test 4-Nitrophenyl Di-Sodium Phosphate	12 x 0.15g
NPD04	Phosphatase Test Carbonate Bi-Carbonate Buffer	12 x 2.5g
CH3CN501	Acetonitrile CH ₃ CN, 50% v/v	1L
BAB2041	Barium Borate-Hydroxide Buffer	1L
BAOH011	Barium Hydroxide Ba(OH) ₂ , 0.1N	1L
BOR0091	Borax Buffer, 0.00996M	1L
BUT7051	n-Butanol CH ₃ (CH ₂) ₂ CH ₂ OH, 7.5% v/v	1L
CUS051	Copper Sulfate CuSO ₄ , 0.05%	1L
CUS11	Copper Sulfate CuSO ₄ , 1%	1L
CUSSOLA	Copper Sulfate Solution B 72.5g/L	1L
CUSSOLB	Copper Sulfate Solution A 440.9mg Cu/25ml	1L
FESO41	Ferrous Sulfate Solution FeSO ₄	1L
PBA101	Lead Acetate Solution (CH ₃ COO) ₂ Pb, 10%	1L
PB00574	Phosphate Buffer, 0.05M pH 7.4	1L
EFSKNO	Potassium Nitrate KNO ₃ , 10% w/v	100ml
PP500F	Potassium Permanganate KMnO ₄ , 5% w/v	1L
S2WW1	Sodium Hydroxide, NaOH, 2% w/v	1L
ZS601	Zinc Sulfate, ZnSO ₄ , 6% w/v	1L

Reagecon's Flame Photometry Standards

Industrial Standards

Product No.	Description	Concentration	Pack size
FIBA1	Barium	1,000ppm	500ml
FIBA3	Barium	3,000ppm	500ml
FICA1	Calcium	1,000ppm	500ml
FICA2	Calcium	2,000ppm	500ml
FICS1	Cesium	1,000ppm	500ml
FILI1	Lithium	1,000ppm	500ml
FINA1	Sodium	1,000ppm	500ml
FIK1	Potassium	1,000ppm	500ml
FISR1	Strontium	1,000ppm	500ml
FIRB1	Rubidium	1,000ppm	500ml

Multi-Element Linearity Standards

Product Number	Description	Concentration	Pack Size
FPLE5		Low	500ml
	Barium	28.8ppm	
	Calcium	18.2ppm	
	Lithium	1.91ppm	
	Potassium	2.09ppm	
	Sodium	2.15ppm	
FPME5		Medium	500ml
	Barium	105ppm	
	Calcium	52.4ppm	
	Lithium	5.42ppm	
	Potassium	5.37ppm	
	Sodium	5.67ppm	
FPHE5		High	500ml
	Barium	510ppm	
	Calcium	112ppm	
	Lithium	10.0ppm	
	Potassium	11.4ppm	
	Sodium	11.3ppm	
FPHK3	Combination of FPLE5, FPME5 & FPHE5	As above	3 x 500ml

Reagecon's Atomic Absorption Standards

Description	Concentration 1,000ppm	Concentration 10,000ppm
Aluminium in 0.5M Nitric Acid	AAALH	
Aluminium in 1M Nitric Acid		AAALM
Antimony in Water	AASBH	AASBM
Arsenic (III) in 1M Hydrochloric Acid	AAASH	AAASM
Arsenic (V) in 1M Nitric Acid	AAAS05H	
Barium in 0.5M Nitric Acid	AABAH	
Barium in 1M Nitric Acid		AABAM
Beryllium in 1M Hydrochloric Acid	AABEH	AABEM
Bismuth in 0.5M Nitric Acid	AABIH	
Bismuth in 1M Nitric Acid		AABIM
Boron in Water	AAB-H	AAB-M
Cadmium in 0.5M Nitric Acid	AACDH	
Cadmium in 1M Nitric Acid		AACDM
Calcium in 0.5M Nitric Acid	AACAH	
Calcium in 1M Nitric Acid		AACAM
Cesium in 1M Nitric Acid	AACSH	AACSM
Chromium in 0.5M Nitric Acid	AACRH	
Chromium in 1M Nitric Acid		AACRM
Cobalt in 0.5M Nitric Acid	AACOH	
Cobalt in 1M Nitric Acid		AACOM
Copper in 0.5M Nitric Acid	AACUH	
Copper in 1M Nitric Acid		AACUM
Gadolinium in 1M Hydrochloric Acid	AAGDH	AAGDM
Gallium in 1M Hydrochloric Acid	AAGAH	AAGAM
Gold in 2M Hydrochloric Acid	AAAUH	AAAUM
Indium in 1M Nitric Acid	AAINH	AAINM
Iridium in 10% Hydrochloric Acid	AAIRH	AAIRM
Iron in 0.5M Nitric Acid	AAFEH	
Iron in 1M Nitric Acid		AAFEM
Lanthanum in 1M Nitric Acid	AALAH	AALAM
Lead in 0.5M Nitric Acid	AAPBH	
Lead in 1M Nitric Acid		AAPBM
Lithium in 0.5M Nitric Acid	AALIH	
Lithium in 1M Nitric Acid		AALIM
Magnesium in 0.5M Nitric Acid	AAMGH	
Magnesium in 1M Nitric Acid		AAMGM
Manganese in 1M HCl	AAMNH	AAMNM
Mercury in 0.5M Nitric Acid	AAHGH	
Mercury in 1M Nitric Acid		AAHGM
Molybdenum in Water	AAMOH	AAMOM
Nickel in 0.5M Nitric Acid	AANIH	

Description	Concentration 1,000ppm	Concentration 10,000ppm
Nickel in 1M Nitric Acid		AANIM
Palladium in 1M Hydrochloric Acid	AAPDH	AAPDM
Phosphorus in Water	AAP-H	AAP-M
Platinum in 1M Hydrochloric Acid	AAPTH	AAPTM
Potassium in 0.5M Nitric Acid	AAK-H	
Potassium in 1M Nitric Acid		AAK-M
Rhodium in 1M Nitric Acid	AARHH	AARHM
Selenium in 0.5M Nitric Acid	AASEH	
Selenium in 1M Nitric Acid		AASEM
Silicon in Water	AASIH	AASIM
Silver in 0.5M Nitric Acid	AAAGH	
Silver in 1M Nitric Acid		AAAGM
Sodium in 0.5M Nitric Acid	AANAH	
Sodium in 1M Nitric Acid		AANAM
Strontium in 0.5M Nitric Acid	AASRH	
Strontium in 1M Nitric Acid		AASRM
Sulphur in Water	AAS-H	AAS-M

Matrix Modifier Solutions for Graphite Furnace AA

Description	Product No. 100ml	Product No. 500ml
Ammonium dihydrogen phosphate solution 40% in Water	MMS101	MMS105
Ammonium nitrate solution 2% in Water	MMS201	MMS205
Calcium nitrate solution 2% Ca in 5% in HNO ₃	MMS301	MMS305
Lanthanum chloride solution 5% La in 5% HCl	MMS401	MMS405
Lanthanum nitrate solution 5% La in 5% HNO ₃	MMS501	MMS505
Magnesium nitrate solution 2% Mg in 5% HNO ₃	MMS601	MMS605
Nickel nitrate solution 5% Ni in 5% HNO ₃	MMS701	MMS705
Palladium nitrate solution 0.2% Pd in 5% HNO ₃	MMS801	MMS805
Palladium nitrate solution 1.0% Pd in 5% HNO ₃	MMS901	MMS905
Palladium nitrate solution 2.0% Pd in 10% HNO ₃	MMS1001	MMS1005

Releasing Agents for Atomic Absorption

Product No.	Description	Pack size
RA1N05	1.0% Lanthanum in HNO ₃	500ml
RA1C05	1.0% Lanthanum in HCl	500ml
RA5N05	5.0% Lanthanum in HNO ₃	500ml
RA5C05	5.0% Lanthanum in HCl	500ml

Reagecon's Ion Chromatography Standards

Anion Standards

Product No.	Ion	Starting Material	Matrix	Concentration	Pack size
Acetate					
ICAU35	CH ₃ COO-	Sodium Acetate	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS35	CH ₃ COO-	Sodium Acetate	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB35	CH ₃ COO-	Sodium Acetate	H ₂ O	1mg/ml (1,000ppm)	500ml
Bromide					
ICAU01	Br-	KBr	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS01	Br-	KBr	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB01	Br-	KBr	H ₂ O	1mg/ml (1,000ppm)	500ml
Chloride					
ICAU02	Cl-	KCl	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS02	Cl-	KCl	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB02	Cl-	KCl	H ₂ O	1mg/ml (1,000ppm)	500ml
Chromate					
ICAU29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	1mg/ml (1,000ppm)	500ml
Cyanide					
ICAU08	CN-	NaCN	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS08	CN-	NaCN	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB08	CN-	NaCN	H ₂ O	1mg/ml (1,000ppm)	500ml
Fluoride					
ICAU03	F-	NaF	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS03	F-	NaF	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB03	F-	NaF	H ₂ O	1mg/ml (1,000ppm)	500ml
Formate					
ICAU34	HCOO-	Sodium Formate	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS34	HCOO-	Sodium Formate	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB34	HCOO-	Sodium Formate	H ₂ O	1mg/ml (1,000ppm)	500ml
Iodide					
ICAU40	I-	NH ₄ I	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS40	I-	NH ₄ I	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB40	I-	NH ₄ I	H ₂ O	1mg/ml (1,000ppm)	500ml

Product No.	Ion	Starting Material	Matrix	Concentration	Pack size
Nitrate					
ICAU04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	1mg/ml (1,000ppm)	500ml
Nitrite					
ICAU11	NO ₂ ⁻	NaNO ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS11	NO ₂ ⁻	NaNO ₂	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB11	NO ₂ ⁻	NaNO ₂	H ₂ O	1mg/ml (1,000ppm)	500ml
Oxalate					
ICAU13	(COO) ₂ ²⁻	K ₂ C ₂ O ₄	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS13	(COO) ₂ ²⁻	K ₂ C ₂ O ₄	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB13	(COO) ₂ ²⁻	K ₂ C ₂ O ₄	H ₂ O	1mg/ml (1,000ppm)	500ml
Phosphate					
ICAU05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	500ml
Silica					
ICAU12	SiO ₂	Na ₂ O ₃ Si	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS12	SiO ₂	Na ₂ O ₃ Si	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB12	SiO ₂	Na ₂ O ₃ Si	H ₂ O	1mg/ml (1,000ppm)	500ml
Sulphate					
ICAU06	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS06	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB06	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	1mg/ml (1,000ppm)	500ml
Tartrate					
ICAU36	(CHOH) ₂ (COO) ₂ ²⁻	Tartaric Acid	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS36	(CHOH) ₂ (COO) ₂ ²⁻	Tartaric Acid	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB36	(CHOH) ₂ (COO) ₂ ²⁻	Tartaric Acid	H ₂ O	1mg/ml (1,000ppm)	500ml

Cation Standards

Product No.	Ion	Starting Material	Matrix	Concentration	Pack size
Aluminium					
ICCU06	Al ⁴⁺	Al(NO ₃) ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS06	Al ⁴⁺	Al(NO ₃) ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB06	Al ⁴⁺	Al(NO ₃) ₃	H ₂ O	1mg/ml (1,000ppm)	500ml
Ammonium					
ICCU01	NH ₄ ⁺	NH ₄ Cl	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS01	NH ₄ ⁺	NH ₄ Cl	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB01	NH ₄ ⁺	NH ₄ Cl	H ₂ O	1mg/ml (1,000ppm)	500ml
Barium					
ICCU44	Ba ²⁺	Ba(NO ₃) ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS44	Ba ²⁺	Ba(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB44	Ba ²⁺	Ba(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	500ml
Cadmium					
ICCU09	Cd ⁺	Cd Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS09	Cd ⁺	Cd Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB09	Cd ⁺	Cd Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml

Product No.	Ion	Starting Material	Matrix	Concentration	Pack size
Calcium					
ICCU08	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS08	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB08	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	500ml
Cesium					
ICCU91	Cs ⁺	CsNO ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS91	Cs ⁺	CsNO ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB91	Cs ⁺	CsNO ₃	H ₂ O	1mg/ml (1,000ppm)	500ml
Cobalt					
ICCU15	Co ²⁺	Co Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS15	Co ²⁺	Co Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB15	Co ²⁺	Co Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Copper					
ICCU16	Cu ⁺	Cu Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS16	Cu ⁺	Cu Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB16	Cu ⁺	Cu Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Iron					
ICCU12	Fe ²⁺	Fe(NO ₃) ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS12	Fe ²⁺	Fe(NO ₃) ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB12	Fe ²⁺	Fe(NO ₃) ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Lead					
ICCU19	Pb ⁺	PbNO ₂	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS19	Pb ⁺	PbNO ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB19	Pb ⁺	PbNO ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Lithium					
ICCU02	Li ⁺	LiNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS02	Li ⁺	LiNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB02	Li ⁺	LiNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Magnesium					
ICCU07	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCS07	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB07	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	1mg/ml (1,000ppm)	500ml
Manganese					
ICCU11	Mn ²⁺	Mn	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS11	Mn ²⁺	Mn	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB11	Mn ²⁺	Mn	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Nickel					
ICCU14	Ni ²⁺	Ni Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS14	Ni ²⁺	Ni Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB14	Ni ²⁺	Ni Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Potassium					
ICCU03	K ⁺	KNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS03	K ⁺	KNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB03	K ⁺	KNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Rubidium					
ICCU92	Rb ⁺	RbNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS92	Rb ⁺	RbNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB92	Rb ⁺	RbNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml

Product No.	Ion	Starting Material	Matrix	Concentration	Pack size
Sodium					
ICCU04	Na ⁺	NaNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS04	Na ⁺	NaNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB04	Na ⁺	NaNO ₃	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Strontium					
ICCU43	Sr ²⁺	Sr(NO ₃) ₂	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS43	Sr ²⁺	Sr(NO ₃) ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB43	Sr ²⁺	Sr(NO ₃) ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Zinc					
ICCU33	Zn ²⁺	Zn Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS33	Zn ²⁺	Zn Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB33	Zn ²⁺	Zn Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml

Reagecon's ICP - MS, ICP-OES Single Element Standards

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Aluminium				
PAL1A2	AL 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PAL2A2	AL 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PAL2C2	AL 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PAL4A2	AL 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PAL2A3	AL 99.999	5% HCl (v/v)	1,000	100ml
PAL2C3	AL 99.999	5% HCl (v/v)	1,000	500ml
PAL4A3	AL 99.999	5% HCl (v/v)	10,000	100ml
Antimony				
PSB1A4	Sb 99.999	1% HF + 5% HNO ₃ (v/v)	100	100ml
PSB2A4	Sb 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PSB2C4	Sb 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PSB4A4	Sb 99.999	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
PSB2A5	Sb 99.999	10% HCl (v/v)	1,000	100ml
PSB2C5	Sb 99.999	10% HCl (v/v)	1,000	500ml
PSB4A5	Sb 99.999	10% HCl (v/v)	10,000	100ml
Arsenic				
PAS1A2	As 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PAS2A2	As 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PAS2C2	As 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PAS4A2	As 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Barium				
PBA1A2	BaCO ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PBA2A2	BaCO ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PBA2C2	BaCO ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PBA4A2	BaCO ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PBA2A3	BaCO ₃ 99.999	2% HCl (v/v)	1,000	100ml
PBA2C3	BaCO ₃ 99.999	2% HCl (v/v)	1,000	500ml
PBA4A3	BaCO ₃ 99.999	2% HCl (v/v)	10,000	100ml
Beryllium				
PBE1A2	BeO 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PBE2A2	BeO 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PBE2C2	BeO 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PBE4A2	BeO 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Bismuth				
PBI1A6	Bi 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PBI2A6	Bi 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PBI2C6	Bi 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PBI4A6	Bi 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Boron				
PB1A7	H ₃ BO ₃ 99.99	H ₂ O	100	100ml
PB2A7	H ₃ BO ₃ 99.99	H ₂ O	1,000	100ml
PB2C7	H ₃ BO ₃ 99.99	H ₂ O	1,000	500ml
PB4A7	H ₃ BO ₃ 99.99	H ₂ O	10,000	100ml
Cadmium				
PCD1A2	Cd 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PCD2A2	Cd 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCD2C2	Cd 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCD4A2	Cd 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PCD2A3	Cd 99.999	2% HCl (v/v)	1,000	100ml
PCD2C3	Cd 99.999	2% HCl (v/v)	1,000	500ml
Calcium				
PCA1A2	CaCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	100	100ml
PCA2A2	CaCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCA2C2	CaCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCA4A2	CaCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	10,000	100ml
PCA2A3	CaCO ₃ 99.995	2% HCl (v/v)	1,000	100ml
PCA2C3	CaCO ₃ 99.995	2% HCl (v/v)	1,000	500ml
PCA4A3	CaCO ₃ 99.995	2% HCl (v/v)	10,000	100ml
Cerium				
PCE1A2	CeO ₂ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PCE2A2	CeO ₂ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCE2C2	CeO ₂ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCE4A2	CeO ₂ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Cesium				
PCS1A2	CsCl 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PCS2A2	CsCl 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCS2C2	CsCl 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCS4A2	CsCl 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Chromium				
PCR1A2	Cr(NO ₃) ₃ .9H ₂ O 99.99+	2 - 5% HNO ₃ (v/v)	100	100ml
PCR2A2	Cr(NO ₃) ₃ .9H ₂ O 99.99+	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCR2C2	Cr(NO ₃) ₃ .9H ₂ O 99.99+	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCR4A2	Cr(NO ₃) ₃ .9H ₂ O 99.99+	2 - 5% HNO ₃ (v/v)	10,000	100ml
PCR2A3	Cr 99.995	2% HCl (v/v)	1,000	100ml
PCR2C3	Cr 99.995	2% HCl (v/v)	1,000	500ml
PCR4A3	Cr 99.995	2% HCl (v/v)	10,000	100ml
PCR2A7	Cr 99.995	2% HCl (v/v)	1,000	100ml
Cobalt				
PCO1A2	Co 99.995	2 - 5% HNO ₃ (v/v)	100	100ml
PCO2A2	Co 99.995	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCO2C2	Co 99.995	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCO4A2	Co 99.995	2 - 5% HNO ₃ (v/v)	10,000	100ml
PCO4A3	Co 99.995	2% HCl (v/v)	10,000	100ml
PCO4C3	Co 99.995	2% HCl (v/v)	10,000	500ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Copper				
PCU1A2	Cu 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PCU2A2	Cu 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PCU2C2	Cu 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PCU4A2	Cu 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PCU2A3	Cu 99.999	2% HCl (v/v)	1,000	100ml
PCU2C3	Cu 99.999	2% HCl (v/v)	1,000	500ml
PCU4A3	Cu 99.999	2% HCl (v/v)	10,000	100ml
Dysprosium				
PDY1A2	DY ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	100	100ml
PDY2A2	DY ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	1,000	100ml
PDY2C2	DY ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	1,000	500ml
PDY4A2	DY ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	10,000	100ml
Erbium				
PER1A2	Er ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	100	100ml
PER2A2	Er ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	1,000	100ml
PER2C2	Er ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	1,000	500ml
PER4A2	Er ₂ O ₃ 99.99+	2 - 5% HNO ₃ (v/v)	10,000	100ml
Europium				
PEU1A2	Eu ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PEU2A2	Eu ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PEU2C2	Eu ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PEU4A2	Eu ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Gadolinium				
PGD1A2	Gd ₂ O ₃ 99.995	2 - 5% HNO ₃ (v/v)	100	100ml
PGD2A2	Gd ₂ O ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	100ml
PGD2C2	Gd ₂ O ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	500ml
PGD4A2	Gd ₂ O ₃ 99.995	2 - 5% HNO ₃ (v/v)	10,000	100ml
Gallium				
PGA1A2	Ga 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PGA2A2	Ga 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PGA2C2	Ga 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PGA4A2	Ga 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Germanium				
PGE1A7	Ge 99.999	1% HF + 5% HNO ₃ (v/v)	100	100ml
PGE2A7	Ge 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PGE2C7	Ge 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PGE4A7	Ge 99.999	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
Gold				
PAU1A8	Au 99.998	5% HCl (v/v)	100	100ml
PAU2A8	Au 99.998	5% HCl (v/v)	1,000	100ml
PAU2C8	Au 99.998	5% HCl (v/v)	1,000	500ml
PAU4A8	Au 99.998	5% HCl (v/v)	10,000	100ml
Hafnium				
PHF1A3	Hf 99.9	1% HF + 5% HNO ₃ (v/v)	100	100ml
PHF2A3	Hf 99.9	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PHF2C3	Hf 99.9	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PHF4A3	Hf 99.9	1% HF + 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Holmium				
PHO1A3	Ho ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PHO2A2	Ho ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PHO2C2	Ho ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PHO4A2	Ho ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Indium				
PIN1A2	In 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PIN2A2	In 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PIN2C2	In 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PIN4A2	In 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Iridium				
PIR1A8	(NH ₄) ₂ IrCl ₆ 99.998	5% HCl (v/v)	100	100ml
PIR2A8	(NH ₄) ₂ IrCl ₆ 99.998	5% HCl (v/v)	1,000	100ml
PIR2C8	(NH ₄) ₂ IrCl ₆ 99.998	5% HCl (v/v)	1,000	500ml
PIR4A8	(NH ₄) ₂ IrCl ₆ 99.998	5% HCl (v/v)	10,000	100ml
Iron				
PFE1A2	Fe 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PFE2A2	Fe 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PFE2C2	Fe 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PFE4A2	Fe 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PFE2A3	Fe 99.999	2 - 5% HCl (v/v)	1,000	100ml
PFE2C3	Fe 99.999	2 - 5% HCl (v/v)	1,000	500ml
PFE4A3	Fe 99.999	2 - 5% HCl (v/v)	10,000	100ml
Lanthanum				
PLA1A2	LA ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PLA2A2	LA ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PLA2C2	LA ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PLA4A2	LA ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Lead				
PPB1A2	Pb 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PPB2A2	Pb 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PPB2C2	Pb 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PPB4A2	Pb 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Lithium				
PLI1A2	Li ₂ CO ₃ 99.997	2 - 5% HNO ₃ (v/v)	100	100ml
PLI2A2	Li ₂ CO ₃ 99.997	2 - 5% HNO ₃ (v/v)	1,000	100ml
PLI2C2	Li ₂ CO ₃ 99.997	2 - 5% HNO ₃ (v/v)	1,000	500ml
PLI4A2	Li ₂ CO ₃ 99.997	2 - 5% HNO ₃ (v/v)	10,000	100ml
PLI2A3	Li ₂ CO ₃ 99.997	2 - 5% HCl (v/v)	1,000	100ml
PLI2C3	Li ₂ CO ₃ 99.997	2 - 5% HCl (v/v)	1,000	500ml
PLI4A3	Li ₂ CO ₃ 99.997	2 - 5% HCl (v/v)	10,000	100ml
Lutetium				
PLU1A2	Lu ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PLU2A2	Lu ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PLU2C2	Lu ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PLU4A2	Lu ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Magnesium				
PMG1A2	Mg 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PMG2A2	Mg 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PMG2C2	Mg 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PMG4A2	Mg 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
PMG2A3	Mg 99.99	2 - 5% HCl (v/v)	1,000	100ml
PMG2C3	Mg 99.99	2 - 5% HCl (v/v)	1,000	500ml
PMG4A3	Mg 99.99	2 - 5% HCl (v/v)	10,000	100ml
Manganese				
PMN1A2	Mn 99.98	2 - 5% HNO ₃ (v/v)	100	100ml
PMN2A2	Mn 99.98	2 - 5% HNO ₃ (v/v)	1,000	100ml
PMN2C2	Mn 99.98	2 - 5% HNO ₃ (v/v)	1,000	500ml
PMN4A2	Mn 99.98	2 - 5% HNO ₃ (v/v)	10,000	100ml
Mercury				
PHG1A6	Hg 99.999+	2 - 5% HNO ₃ (v/v)	100	100ml
PHG2A6	Hg 99.999+	2 - 5% HNO ₃ (v/v)	1,000	100ml
PHG2C6	Hg 99.999+	2 - 5% HNO ₃ (v/v)	1,000	500ml
PHG4A6	Hg 99.999+	2 - 5% HNO ₃ (v/v)	10,000	100ml
Molybdenum				
PMO1A7	Mo 99.999	2% NH ₄ OH (v/v)	100	100ml
PMO2A7	Mo 99.999	2% NH ₄ OH (v/v)	1,000	100ml
PMO2C7	Mo 99.999	2% NH ₄ OH (v/v)	1,000	500ml
PMO4A7	Mo 99.999	2% NH ₄ OH (v/v)	10,000	100ml
Neodymium				
PND1A2	Nd ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PND2A2	Nd ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PND2C2	Nd ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PND4A2	Nd ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Nickel				
PNI1A2	Ni 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PNI2A2	Ni 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PNI2C2	Ni 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PNI4A2	Ni 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Niobium				
PNB1A9	Nb 99.9+	1% HF + 5% HNO ₃ (v/v)	100	100ml
PNB2A9	Nb 99.9+	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PNB2C9	Nb 99.9+	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PNB4A9	Nb 99.9+	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
Palladium				
PPD1A8	Pd 99.999	5% HCl (v/v)	100	100ml
PPD2A8	Pd 99.999	5% HCl (v/v)	1,000	100ml
PPD2C8	Pd 99.999	5% HCl (v/v)	1,000	500ml
PPB4A8	Pd 99.999	5% HCl (v/v)	10,000	100ml
Phosphorus				
PP1A7	NH ₄ H ₂ PO ₄ 99.999	0.05% H ₂ SO ₄ (v/v)	100	100ml
PP2A7	NH ₄ H ₂ PO ₄ 99.999	0.05% H ₂ SO ₄ (v/v)	1,000	100ml
PP2C7	NH ₄ H ₂ PO ₄ 99.999	0.05% H ₂ SO ₄ (v/v)	1,000	500ml
PP4A7	NH ₄ H ₂ PO ₄ 99.999	0.05% H ₂ SO ₄ (v/v)	10,000	100ml
PPT1A8	Pt 99.995	5% HCl (v/v)	100	100ml
PPT2A8	Pt 99.995	5% HCl (v/v)	1,000	100ml
PPT2C8	Pt 99.995	5% HCl (v/v)	1,000	500ml
PPT4A8	Pt 99.995	5% HCl (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Potassium				
PK1A2	KNO ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PK2A2	KNO ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PK2C2	KNO ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PK4A2	KNO ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PK2A3	KCl 99.999	H ₂ O	1,000	100ml
PK2C3	KCl 99.999	H ₂ O	1,000	500ml
PK4A3	KCl 99.999	H ₂ O	10,000	100ml
Praseodymium				
PPR1A2	Pr ₆ O ₁₁ 99.999	5% HCl (v/v)	100	100ml
PPR2A2	Pr ₆ O ₁₁ 99.999	5% HCl (v/v)	1,000	100ml
PPR2C2	Pr ₆ O ₁₁ 99.999	5% HCl (v/v)	1,000	500ml
PPR4A2	Pr ₆ O ₁₁ 99.999	5% HCl (v/v)	10,000	100ml
Rhenium				
PRE1A7	NH ₄ ReO ₄ 99.999	H ₂ O	100	100ml
PRE2A7	NH ₄ ReO ₄ 99.999	H ₂ O	1,000	100ml
PRE2C7	NH ₄ ReO ₄ 99.999	H ₂ O	1,000	500ml
PRE4A7	NH ₄ ReO ₄ 99.999	H ₂ O	10,000	100ml
Rhodium				
PRH1A8	(NH ₄) ₃ RhCl ₆ 99.99	5% HCl (v/v)	100	100ml
PRH2A8	(NH ₄) ₃ RhCl ₆ 99.99	5% HCl (v/v)	1,000	100ml
PRH2C8	(NH ₄) ₃ RhCl ₆ 99.99	5% HCl (v/v)	1,000	500ml
PRH4A8	(NH ₄) ₃ RhCl ₆ 99.99	5% HCl (v/v)	10,000	100ml
Rubidium				
PRB1A2	RbNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PRB2A2	RbNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PRB2C2	RbNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PRB4A2	RbNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Ruthenium				
PRU1A8	(NH ₄) ₃ RuCl ₆ 99.99	5% HCl (v/v)	100	100ml
PRU2A8	(NH ₄) ₃ RuCl ₆ 99.99	5% HCl (v/v)	1,000	100ml
PRU2C8	(NH ₄) ₃ RuCl ₆ 99.99	5% HCl (v/v)	1,000	500ml
PRU4A8	(NH ₄) ₃ RuCl ₆ 99.99	5% HCl (v/v)	10,000	100ml
Samarium				
PSM1A2	Sm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PSM2A2	Sm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PSM2C2	Sm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PSM4A2	Sm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Scandium				
PSC1A2	Sc ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PSC2A2	Sc ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PSC2C2	Sc ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PSC4A2	Sc ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Selenium				
PSE1A2	Se 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PSE2A2	Se 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PSE2C2	Se 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PSE4A2	Se 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Silicon				
PSI1A9	(NH ₄) ₂ SiF ₆ 99.99	0.05% HF (v/v)	100	100ml
PSI2A9	(NH ₄) ₂ SiF ₆ 99.99	0.05% HF (v/v)	1,000	100ml
PSI2C9	(NH ₄) ₂ SiF ₆ 99.99	0.05% HF (v/v)	1,000	500ml
PSI4A9	(NH ₄) ₂ SiF ₆ 99.99	0.05% HF (v/v)	10,000	100ml
PSI2A7	Na ₂ SiO ₃ 99.9	H ₂ O	1,000	100ml
PSI2C7	Na ₂ SiO ₃ 99.9	H ₂ O	1,000	500ml
PSI4A7	Na ₂ SiO ₃ 99.9	H ₂ O	10,000	100ml
Silver				
PAG1A2	Ag 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PAG2A2	Ag 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PAG2C2	Ag 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PAG4A2	Ag 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
Sodium				
PNA1A2	NaNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PNA2A2	NaNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PNA2C2	NaNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PNA4A2	NaNO ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
PNA2A3	NaCl 99.999	H ₂ O	1,000	100ml
PNA2C3	NaCl 99.999	H ₂ O	1,000	500ml
PNA4A3	NaCl 99.999	H ₂ O	10,000	100ml
Strontium				
PSR1A2	SrCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	100	100ml
PSR2A2	SrCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	100ml
PSR2C2	SrCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	1,000	500ml
PSR4A2	SrCO ₃ 99.995	2 - 5% HNO ₃ (v/v)	10,000	100ml
PSR2A3	SrCO ₃ 99.995	2 - 5% HCl (v/v)	1,000	100ml
PSR2C3	SrCO ₃ 99.995	2 - 5% HCl (v/v)	1,000	500ml
PSR4A3	SrCO ₃ 99.995	2 - 5% HCl (v/v)	10,000	100ml
Sulphur				
PS1A7	(NH ₄) ₂ SO ₄ 99.999	H ₂ O	100	100ml
PS2A7	(NH ₄) ₂ SO ₄ 99.999	H ₂ O	1,000	100ml
PS2C7	(NH ₄) ₂ SO ₄ 99.999	H ₂ O	1,000	500ml
PS4A7	(NH ₄) ₂ SO ₄ 99.999	H ₂ O	10,000	100ml
Tantalum				
PTA1A9	Ta 99.98	1% HF + 5% HNO ₃ (v/v)	100	100ml
PTA2A9	Ta 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PTA2C9	Ta 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PTA4A9	Ta 99.98	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
Tellurium				
PTE1A10	Te 99.999	20% HCl (v/v)	100	100ml
PTE2A10	Te 99.999	20% HCl (v/v)	1,000	100ml
PTE2C10	Te 99.999	20% HCl (v/v)	1,000	500ml
Terbium				
PTB1A2	Tb ₄ O ₇ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PTB2A2	Tb ₄ O ₇ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PTB2C2	Tb ₄ O ₇ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PTB4A2	Tb ₄ O ₇ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Thallium				
PTL1A2	TlNO ₃ 99.9995	2 - 5% HNO ₃ (v/v)	100	100ml
PTL2A2	TlNO ₃ 99.9995	2 - 5% HNO ₃ (v/v)	1,000	100ml
PTL2C2	TlNO ₃ 99.9995	2 - 5% HNO ₃ (v/v)	1,000	500ml
PTL4A2	TlNO ₃ 99.9995	2 - 5% HNO ₃ (v/v)	10,000	100ml
Thorium				
PTH1A2	ThO ₂ 99.95	2 - 5% HNO ₃ (v/v)	100	100ml
PTH2A2	ThO ₂ 99.95	2 - 5% HNO ₃ (v/v)	1,000	100ml
PTH2C2	ThO ₂ 99.95	2 - 5% HNO ₃ (v/v)	1,000	500ml
PTH4A2	ThO ₂ 99.95	2 - 5% HNO ₃ (v/v)	10,000	100ml
Thulium				
PTM1A2	Tm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	100	100ml
PTM2A2	Tm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PTM2C2	Tm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PTM4A2	Tm ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Tin				
PSN1A5	Sn 99.999	1% HF + 5% HNO ₃ (v/v)	100	100ml
PSN2A5	Sn 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PSN2C5	Sn 99.999	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PSN4A5	Sn 99.999	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
PSN2A13	Sn 99.999	10% HCl (v/v)	1,000	100ml
PSN2C13	Sn 99.999	10% HCl (v/v)	1,000	500ml
PSN4A19	Sn 99.999	20% HCl (v/v)	10,000	100ml
Titanium				
PTI1A9	Ti 99.98	1% HF + 5% HNO ₃ (v/v)	100	100ml
PTI2A9	Ti 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PTI2C9	Ti 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PTI4A9	Ti 99.98	1% HF + 5% HNO ₃ (v/v)	10,000	100ml
Tungsten				
PW2A7	W 99.99+	2% NH ₄ OH (v/v)	1,000	100ml
PW2C7	W 99.99+	2% NH ₄ OH (v/v)	1,000	500ml
PW4A7	W 99.99+	2% NH ₄ OH (v/v)	10,000	100ml
Uranium				
PU1A2	U ₃ O ₈ 99.95	2 - 5% HNO ₃ (v/v)	100	100ml
PU2A2	U ₃ O ₈ 99.95	2 - 5% HNO ₃ (v/v)	1,000	100ml
PU2C2	U ₃ O ₈ 99.95	2 - 5% HNO ₃ (v/v)	1,000	500ml
PU4A2	U ₃ O ₈ 99.95	2 - 5% HNO ₃ (v/v)	10,000	100ml
Vanadium				
PV1A19	NH ₄ VO ₃ 99.95+	2 - 5% HNO ₃ (v/v)	100	100ml
PV2A19	NH ₄ VO ₃ 99.95+	2 - 5% HNO ₃ (v/v)	1,000	100ml
PV2C19	NH ₄ VO ₃ 99.95+	2 - 5% HNO ₃ (v/v)	1,000	500ml
PV4A19	NH ₄ VO ₃ 99.95+	2 - 5% HNO ₃ (v/v)	10,000	100ml
Ytterbium				
PYB2A2	Yb ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	100ml
PYB2C2	Yb ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	1,000	500ml
PYB4A2	Yb ₂ O ₃ 99.99	2 - 5% HNO ₃ (v/v)	10,000	100ml
Yttrium				
PY1A2	Y ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PY2A2	Y ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PY2C2	Y ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PY4A2	Y ₂ O ₃ 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml

Product No.	Starting Material and its Purity %	Matrix	Conc µg/ml	Pack size
Zinc				
PZN1A2	Zn 99.999	2 - 5% HNO ₃ (v/v)	100	100ml
PZN2A2	Zn 99.999	2 - 5% HNO ₃ (v/v)	1,000	100ml
PZN2C2	Zn 99.999	2 - 5% HNO ₃ (v/v)	1,000	500ml
PZN4A2	Zn 99.999	2 - 5% HNO ₃ (v/v)	10,000	100ml
PZN2A3	Zn 99.999	2% HCl (v/v)	1,000	100ml
PZN2C3	Zn 99.999	2% HCl (v/v)	1,000	500ml
PZN4A3	Zn 99.999	2% HCl (v/v)	10,000	100ml
Zirconium				
PZR1A2	Zr 99.98	1% HF + 5% HNO ₃ (v/v)	100	100ml
PZR2A2	Zr 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	100ml
PZR2C2	Zr 99.98	1% HF + 5% HNO ₃ (v/v)	1,000	500ml
PZR4A2	Zr 99.98	1% HF + 5% HNO ₃ (v/v)	10,000	100ml

pH Buffers @ 20°C

Clear, Colourless pH Buffer Solutions. Tested at 20°C and certified by Reagecon's ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

Description	Product No. 500ml	Product No. 1L	Product No. 5L
Buffer Solution pH 1.00 ± 0.02 @ 20°C	10105	1010	5010
Buffer Solution pH 2.00 ± 0.02 @ 20°C	10205	1020	5020
Buffer Solution pH 3.00 ± 0.02 @ 20°C	10305	1030	5030
Buffer Solution pH 4.00 ± 0.01 @ 20°C	10405	1040	5040
Buffer Solution pH 4.00 ± 0.01 @ 20°C (Phthalate free)	CC10405	CC1040	CC5040
Buffer Solution pH 5.00 ± 0.01 @ 20°C	10505	1050	5050
Buffer Solution pH 6.00 ± 0.01 @ 20°C	10605	1060	5060
Buffer Solution pH 6.80 ± 0.01 @ 20°C	10685	1068	5068
Buffer Solution pH 7.00 ± 0.01 @ 20°C	10705	1070	5070
Buffer Solution pH 8.00 ± 0.01 @ 20°C	10805	1080	5080
Buffer Solution pH 9.00 ± 0.01 @ 20°C	10905	1090	5090
Buffer Solution pH 10.00 ± 0.01 @ 20°C	11005	1100	5100
Buffer Solution pH 11.00 ± 0.05 @ 20°C	11105	1110	5110
Buffer Solution pH 12.00 ± 0.05 @ 20°C	11205	1120	5120
Buffer Solution pH 13.00 ± 0.05 @ 20°C	11305	1130	5130

pH Buffers @ 25°C

Clear, Colourless pH Buffer Solutions. Tested at 25°C and certified by Reagecon's ISO 17025 Accredited Test Method. NIST traceable and presented in various pack sizes.

Description	Product No. 500ml	Product No. 1L	Product No. 5L
Buffer Solution pH 1.00 ±0.02 @25°C	1010525	101025	501025
Buffer Solution pH 2.00 ±0.02 @25°C	1020525	102025	502025
Buffer Solution pH 3.00 ±0.02 @25°C	1030525	103025	503025
Buffer Solution pH 4.00 ±0.01 @25°C	1040525	104025	504025
Buffer Solution pH 4.00 ±0.01 @25°C (Phthalate Free)	CC1040525	CC104025	CC504025
Buffer Solution pH 5.00 ±0.01 @25°C	1050525	105025	505025
Buffer Solution pH 6.00 ±0.01 @25°C	1060525	106025	506025
Buffer Solution pH 6.80 ±0.01 @25°C	1068525	106825	506825
Buffer Solution pH 7.00 ±0.01 @25°C	1070525	107025	507025
Buffer Solution pH 8.00 ±0.01 @25°C	1080525	108025	508025
Buffer Solution pH 9.00 ±0.01 @25°C	1090525	109025	509025
Buffer Solution pH 10.00 ±0.01 @25°C	1100525	110025	510025
Buffer Solution pH 11.00 ±0.05 @25°C	1110525	111025	511025
Buffer Solution pH 12.00 ±0.05 @25°C	1120525	112025	512025
Buffer Solution pH 13.00 ±0.05 @25°C	1130525	113025	513025