

Animal Feeds



Reagents and Standards for The Animal Feeds Industry



As per Official Methods of Analysis of AOAC International, 19th Edition, 2012 Volume 1. Dr George W. Latimer, Jr. AOAC Official Method 975.03 Metal in Plants and Pet Foods

Chapter	Product No.	Description	Pack Size
3.2.05A.a	PK2A3	ICP Standard Potassium H ₂ O 1000µg/ml	100ml

AOAC Official Method 985.01 Metals and Other Elements in Plants and Pet Foods

Chapter	Product No.	Description	Pack Size
3.2.06B.b	H10WV1	Hydrochloric Acid 10% w/v	1L

AOAC Official Method 969.06 Selenium in Plants and Pet Foods

Chapter	Product No.	Description	Pack Size
3.4.13B.b	NH32501	Ammonium Hydroxide 5M	1L
3.4.13B.c	CRER0405	Cresol Red Indicator, 0.04% (w/v) Aqueous	500ml
3.4.13B.c	CRER205	Cresol Red Indicator, 0.2% (w/v) Aqueous	500ml
3.4.13B.d	H21001	Analytical Volumetric Solution Hydrochloric Acid 1.0N, 1.0M	1L

AOAC Official Method 986.15 Arsenic, Cadmium, Lead, Selenium, and Zinc in Human and Pet Foods

Chapter	Product No.	Description	Pack Size
9.1.01C.a	H28005	Analytical Volumetric Solution Hydrochloric Acid 8.0N, 8.0M	5L
9.1.01C.e	1070502	European Pharmacopoeia Reagent Potassium iodide Solution	1L

AOAC Official Method 974.15 Selenium in Human and Pet Food

Chapter	Product No.	Description	Pack Size
9.2.30B.b	SU22501	Analytical Volumetric Solution Sulphuric Acid 5.0N, 2.5M	1L

AOAC Official Method 942.05 Ash of Animal Feed

Chapter	Product No.	Description	Pack Size
4.1.11.A	H26001	Analytical Volumetric Solution 6M Hydrochloric acid	1L
4.1.11.B	1020	Buffer Solution pH2 @ 20°C	1L
4.1.11.B	1040	Buffer Solution pH4 @ 20°C	1L
4.1.11.B	1070	Buffer Solution pH7@ 20°C	1L
4.1.11.C	S30WW1	Sodium Hydroxide 30%w/w	1L

Reagecons Atomic Absorption Standards as referenced in AOAC Official Method 968.08 Minerals in Animal Feed and Pet food

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	AAPTМ
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	AANA H	
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

Releasing agents eliminate the chemical interference from ligands that complex with the analyte thereby altering the free atom population in the flame.

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 Brix Standards (ICUMSA) as referenced in AOAC Official Method 925.05 Sucrose in Animal Feed

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C*	Pack size
BS00	Sucrose (Brix) Standard – 0%	1.332986	15ml
BS00	Sucrose (Brix) Standard – 0%	1.332986	15ml
BS05	Sucrose (Brix) Standard – 5%	1.340264	15ml
BS07	Sucrose (Brix) Standard – 7%	1.343253	15ml
BS10	Sucrose (Brix) Standard – 10%	1.347824	15ml
BS112	Sucrose (Brix) Standard – 11.2%	1.349682	15ml
BS115	Sucrose (Brix) Standard – 11.5%	1.350149	15ml
BS12	Sucrose (Brix) Standard – 12%	1.350930	15ml
BS125	Sucrose (Brix) Standard – 12.5%	1.351714	15ml
BS15	Sucrose (Brix) Standard – 15%	1.355679	15ml
BS20	Sucrose (Brix) Standard – 20%	1.363842	15ml
BS25	Sucrose (Brix) Standard – 25%	1.372328	15ml
BS30	Sucrose (Brix) Standard – 30%	1.381149	15ml
BS35	Sucrose (Brix) Standard – 35%	1.390322	15ml
BS40	Sucrose (Brix) Standard – 40%	1.399860	15ml
BS45	Sucrose (Brix) Standard – 45%	1.409777	15ml
BS50	Sucrose (Brix) Standard – 50%	1.420087	15ml
BS55	Sucrose (Brix) Standard – 55%	1.430800	15ml
BS60	Sucrose (Brix) Standard – 60%	1.441928	15ml

* The nominal Refractive Index value is taken from the ICUMSA published tables

AOAC Official Method 925.05 Sucrose in Animal Feed Brix Standards - Stabilised - 1 Year Shelf Life

Product No.	Description (20°C)	Nominal Refractive Index @ 20°C*	Pack size
BS00S	Sucrose (Brix) Standard – 0%	1.332986	15ml
BS05S	Sucrose (Brix) Standard – 5%	1.340264	15ml
BS07S	Sucrose (Brix) Standard – 7%	1.343253	15ml
BS10S	Sucrose (Brix) Standard – 10%	1.347824	15ml
BS112S	Sucrose (Brix) Standard – 11.2%	1.349682	15ml
BS115S	Sucrose (Brix) Standard – 11.5%	1.350149	15ml
BS12S	Sucrose (Brix) Standard – 12%	1.350930	15ml
BS125S	Sucrose (Brix) Standard – 12.5%	1.351714	15ml
BS15S	Sucrose (Brix) Standard – 15%	1.355679	15ml
BS20S	Sucrose (Brix) Standard – 20%	1.363842	15ml
BS25S	Sucrose (Brix) Standard – 25%	1.372328	15ml
BS30S	Sucrose (Brix) Standard – 30%	1.381149	15ml
BS35S	Sucrose (Brix) Standard – 35%	1.390322	15ml
BS40S	Sucrose (Brix) Standard – 40%	1.399860	15ml
BS45S	Sucrose (Brix) Standard – 45%	1.409777	15ml
BS50S	Sucrose (Brix) Standard – 50%	1.420087	15ml
BS55S	Sucrose (Brix) Standard – 55%	1.430800	15ml
BS60S	Sucrose (Brix) Standard – 60%	1.441928	15ml
BS67S	Sucrose (Brix) Standard – 67.5%	1.459290 (6 months)	15ml

* The nominal Refractive Index value is taken from the ICUMSA published tables for all product numbers except BS67S (Brix Value 67.5%) which is a measured value.

AOAC Official Method 2001.11 Protein (Crude) in Animal Feed, Forage (Plant Tissue), Grain and Oil seeds.

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	Ferriin 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 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	100mlTin
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