

Ion Chromatography Standards



These standards are prepared, tested, certified and verified by following the exact same regime as already presented for ICP-MS Standards. The raw material specifications are in most cases identical to the materials used for ICP-MS. Additionally, the elemental cations are also analysed by ICP-MS. All results are verified on a state of the art Ion Chromatograph, which is calibrated using high purity ISO 17034 accredited standards, similar in concentration to the products listed below.

Controlled Environment

Reagecon's standards are manufactured in a highly controlled clean room environment using:

- High purity starting materials
- Ultra-pure water, specially treated for Mass Spectroscopy Standards
- High purity matrix materials
- Pre-leached and pre-cleaned bottles

Options

Reagecon offers more options than almost any other manufacturer.

- At least 18 anion and 18 cation standards
- Many multi - element mix's
- Concentration options
- Pack size options
- Customised Standards

All at the highest quality and at an affordable price.

Verification of Raw Materials

All metal raw materials are assayed by titration and ICP-MS prior to manufacture. Separate CRM's are used to control or calibrate the titration and ICP-MS respectively. This dual process enables the assays to be cross-checked against each other, provides two layers of traceability and quantifies the combined level of impurities in the starting material. The product is then manufactured gravimetrically using the mass balance approach: 100% - sum of all impurities (w/w). The assay of the final product is certified using the gravimetric result corrected for density. Prior to bottling, the finished product is again tested and verified using an ICP-MS instrument calibrated with appropriate CRM's and a state of the art Ion Chromatograph.

Certification

Reagecon's Ion Chromatography Standards are prepared gravimetrically on a weight/weight basis from the purest available raw materials on the market. Both solute and solvent are weighed on balances calibrated by Reagecon's engineers using OIML traceable weights. Reagecon holds ISO/IEC 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025.

Traceability

The content of the starting material for each single element or multi-element standard is established by titration. The resulting analysis is directly traceable to a relevant NIST standard where available. All of the resulting uncertainties of measurement are calculated according to EURACHEM/CITAC guidelines and reported as expanded uncertainties at the 95% confidence level. Reagecon holds ISO/IEC 17025 (INAB Ref:264T) accreditation for several classes of titrimetric analysis relevant to the assay of Raw Materials, for the manufacture of Ion Chromatography Standards.

Elemental Metallic Impurities

All Reagecon Standards are manufactured from the purest available raw materials. For cations a lot of the starting materials are metals of > 99.999% purity. Several others are at least 99.995% pure. Most of the remaining metals or salts of metals are at least 99.99% pure. The level of impurities are quantified using ICP-MS and are measured and reported both on the starting materials and on the finished product. All of Reagecon's Ion Chromatography standards are manufactured in a Class 10,000 (ISO 7) clean room environment.

Final Assay & Result

Each batch of Reagecon's finalised IC standards are subjected to an assay on the ICP-MS or IC prior to bottling. This assay verifies the target element assay and verifies that the level of impurities have not changed significantly during the manufacturing process. The results are then reported and certified in mg/Kg and mg/L on the basis of weight and the density measurement of the standard. All of the volumetric, titrimetric and gravimetric functions are carried out under a highly regulated temperature regime, using equipment calibrated by Reagecon's engineers.

Reagecon holds ISO/IEC 17025 accreditation for temperature calibration in the range of -90°C to +650°C (INAB Ref:265C). The density measurements are also highly temperature dependent and are carried out in Reagecon's specialised Density Laboratory. Reagecon is ISO/IEC 17025 (INAB Ref:264T) Accredited, for density measurement using an Oscillating U-Tube Method in accordance with the ASTM D4052 method. The company is an extensive producer of density standards and the range is presented in our compendium of Physical and Chemical 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
ICAT35	CH ₃ COO ⁻	Sodium Acetate	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS35	CH ₃ COO ⁻	Sodium Acetate	H ₂ O	1mg/ml (1,000ppm)	100ml
Bromate					
ICAS3301	BrO ₃ ⁻	Potassium Bromate	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS3301-50ml	BrO ₃ ⁻	Potassium Bromate	H ₂ O	1mg/ml (1,000ppm)	50ml
ICAS3305	BrO ₃ ⁻	Potassium Bromate	H ₂ O	1mg/ml (1,000ppm)	500ml
Bromide					
ICAU01	Br ⁻	KBr	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT01	Br ⁻	KBr	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS01	Br ⁻	KBr	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS01-50ml	Br ⁻	KBr	H ₂ O	1mg/ml (1,000ppm)	50ml
ICAB01	Br ⁻	KBr	H ₂ O	1mg/ml (1,000ppm)	500ml
Chlorate					
ICACL001	ClO ₃ ⁻	Potassium Chlorate	H ₂ O	1mg/ml (1,000ppm)	100ml
ICACL001-50ml	ClO ₃ ⁻	Potassium Chlorate	H ₂ O	1mg/ml (1,000ppm)	50ml

Anion Standards

Product No.	Ion	Starting Material	Matrix	Concentration	Pack Size
Chloride					
ICAU02	Cl ⁻	KCl	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT02	Cl ⁻	KCl	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS02	Cl ⁻	KCl	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAB02	Cl ⁻	KCl	H ₂ O	1mg/ml (1,000ppm)	500ml
ICAS021	Cl ⁻	KCl	H ₂ O	1mg/ml (1,000ppm)	1L
ICAS02-10000	Cl ⁻	KCl	H ₂ O	10mg/ml (10,000ppm)	500ml
Chlorite					
ICAS321	ClO ₂ ⁻	Sodium Chlorite	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS321-50ml	ClO ₂ ⁻	Sodium Chlorite	H ₂ O	1mg/ml (1,000ppm)	50ml
Chromate					
ICAX29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	0.002mg/ml (2ppm)	100ml
ICAU29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT29	CrO ₄ ²⁻	NH ₄ Cr ₂ O ₇	H ₂ O	0.2mg/ml (200ppm)	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					
ICAZ08	CN ⁻	NaCN	H ₂ O	0.0001mg/ml (0.1ppm)	100ml
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
ICAT03	F ⁻	NaF	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAT411	F ⁻	NaF	H ₂ O	0.5mg/ml (500ppm)	1L
ICAS03	F ⁻	NaF	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS03-B	F ⁻	NaF	H ₂ O	1mg/ml (1,000ppm)	250ml
ICAB03	F ⁻	NaF	H ₂ O	1mg/ml (1,000ppm)	500ml
Formate					
ICAU34	HCOO ⁻	Sodium Formate	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT34	HCOO ⁻	Sodium Formate	H ₂ O	0.2mg/ml (200ppm)	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
ICAT40	I ⁻	NH ₄ I	H ₂ O	0.2mg/ml (200ppm)	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
Nitrate					
ICAU04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS04-B	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	1mg/ml (1,000ppm)	250ml
ICAB04	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	1mg/ml (1,000ppm)	500ml
ICAS04-10000	NO ₃ ⁻	NH ₄ NO ₃	H ₂ O	10mg/ml (10,000ppm)	500ml

Anion Standards

Product No.	Ion	Starting Material	Matrix	Concentration	Pack Size
Nitrite					
ICA11305	NO ₂ ⁻	NaNO ₂	H ₂ O	0.03mg/ml (30ppm)	500ml
ICAU11	NO ₂ ⁻	NaNO ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAS151005	NO ₂ ⁻	NaNO ₂	H ₂ O	0.1mg/ml (100ppm)	500ml
ICAS151001	NO ₂ ⁻	NaNO ₂	H ₂ O	0.1mg/ml (100ppm)	1L
ICAS11	NO ₂ ⁻	NaNO ₂	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS11-B	NO ₂ ⁻	NaNO ₂	H ₂ O	1mg/ml (1,000ppm)	250ml
ICAB11	NO ₂ ⁻	NaNO ₂	H ₂ O	1mg/ml (1,000ppm)	500ml
ICAS11-10000	NO ₂ ⁻	NaNO ₂	H ₂ O	10mg/ml (10,000ppm)	500ml
Oxalate					
ICAU13	(COO) ₂ ²⁻	K ₂ C ₂ O ₄	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT13	(COO) ₂ ²⁻	K ₂ C ₂ O ₄	H ₂ O	0.2mg/ml (200ppm)	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
ICAT05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	100ml
ICAS05-B	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	250ml
ICAB05	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	500ml
ICAS051	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	1mg/ml (1,000ppm)	1L
ICAS05-10000	PO ₄ ³⁻	NH ₄ H ₂ PO ₄	H ₂ O	10mg/ml (10,000ppm)	500ml
Silica					
ICAU12	SiO ₂	Na ₂ O ₃ Si	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT12	SiO ₂	Na ₂ O ₃ Si	H ₂ O	0.2mg/ml (200ppm)	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
ICAB12-1L	SiO ₂	Na ₂ O ₃ Si	H ₂ O	1mg/ml (1,000ppm)	1L
ICAD12-1L	SiO ₂	Na ₂ O ₃ Si	H ₂ O	0.01mg/ml (10ppb)	1L
Sulphate					
ICAU06	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT06	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	0.2mg/ml (200ppm)	100ml
ICAS0650	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	0.05mg/ml (50ppm)	500ml
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
ICAS061	SO ₄ ²⁻	(NH ₄) ₂ SO ₄	H ₂ O	1mg/ml (1,000ppm)	1L
Tartrate					
ICAU36	(CHOH) ₂ (COO) ₂ ²⁻	Tartaric Acid	H ₂ O	0.1mg/ml (100ppm)	100ml
ICAT36	(CHOH) ₂ (COO) ₂ ²⁻	Tartaric Acid	H ₂ O	0.2mg/ml (200ppm)	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 ³⁺	Al(NO ₃) ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCT06	Al ³⁺	Al(NO ₃) ₃	H ₂ O	0.2mg/ml (200 ppm)	100ml
ICCS06	Al ³⁺	Al(NO ₃) ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCB06	Al ³⁺	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
ICCT01	NH ₄ ⁺	NH ₄ Cl	H ₂ O	0.2mg/ml (200ppm)	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
ICCS01-10000	NH ₄ ⁺	NH ₄ Cl	H ₂ O	10mg/ml (10,000ppm)	500ml
Barium					
ICCU44	Ba ²⁺	Ba(NO ₃) ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCT44	Ba ²⁺	Ba(NO ₃) ₂	H ₂ O	0.2mg/ml (200ppm)	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 ²⁺	Cd Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS09	Cd ²⁺	Cd Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB09	Cd ²⁺	Cd Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Calcium					
ICCU08	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCT08	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	0.2mg/ml (200ppm)	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
ICCCA01	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	1.5mg/ml (1,500ppm)	100ml
ICCCA05	Ca ²⁺	Ca(NO ₃) ₂	H ₂ O	1.5mg/ml (1,500ppm)	500ml
Cesium					
ICCU91	Cs ⁺	CsNO ₃	H ₂ O	0.1mg/ml (100ppm)	100ml
ICCT91	Cs ⁺	CsNO ₃	H ₂ O	0.2mg/ml (200ppm)	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
ICCS95	Co ²⁺	Co Metal	0.5% HNO ₃	1mg/ml (1,000ppm)	100ml
Copper					
ICCU16	Cu ²⁺	Cu Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS16	Cu ²⁺	Cu Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB16	Cu ²⁺	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
ICCT12	Fe ²⁺	Fe(NO ₃) ₃	H ₂ O	0.2mg/ml (200ppm)	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

Product No.	Ion	Starting Material	Matrix	Concentration	Pack Size
Lead					
ICCU19	Pb ²⁺	Pb(NO ₃) ₂	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCS19	Pb ²⁺	Pb(NO ₃) ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB19	Pb ²⁺	Pb(NO ₃) ₂	0.005% HNO ₃	1mg/ml (1,000ppm)	500ml
Lithium					
ICCU02	Li ⁺	LiNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCT02	Li ⁺	LiNO ₃	H ₂ O	0.2mg/ml (200ppm)	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
ICCT07	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	0.2mg/ml (200ppm)	100ml
ICCMG01	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	0.5mg/ml (500ppm)	100ml
ICCMG05	Mg ²⁺	Mg(NO ₃) ₂	H ₂ O	0.5mg/ml (500ppm)	500ml
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 Metal	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCT11	Mn ²⁺	Mn Metal	H ₂ O	0.2mg/ml (200ppm)	100ml
ICCS11	Mn ²⁺	Mn Metal	0.005% HNO ₃	1mg/ml (1,000ppm)	100ml
ICCB11	Mn ²⁺	Mn Metal	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
ICCS96	Ni ²⁺	Ni Metal	0.5% HNO ₃	1mg/ml (1,000ppm)	100ml
Potassium					
ICCU03	K ⁺	KNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCT03	K ⁺	KNO ₃	H ₂ O	0.2mg/ml (200 ppm)	100ml
ICCK01	K ⁺	KNO ₃	0.005% HNO ₃	0.2mg/ml (200 ppm)	100ml
ICCK05	K ⁺	KNO ₃	0.005% HNO ₃	0.2mg/ml (200 ppm)	500ml
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
ICCKS03	K ⁺	KNO ₃	H ₂ O	1mg/ml (1,000ppm)	100ml
ICCKB03	K ⁺	KNO ₃	H ₂ O	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
Sodium					
ICCU04	Na ⁺	NaNO ₃	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCT04	Na ⁺	NaNO ₃	H ₂ O	0.2mg/ml (200ppm)	100ml
ICCN A01	Na ⁺	NaNO ₃	0.005% HNO ₃	0.5mg/ml (500ppm)	100ml
ICCN A05	Na ⁺	NaNO ₃	0.005% HNO ₃	0.5mg/ml (500ppm)	500ml
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

Product No.	Ion	Starting Material	Matrix	Concentration	Pack Size
Strontium					
ICCU43	Sr ²⁺	Sr(NO ₃) ₂	0.005% HNO ₃	0.1mg/ml (100ppm)	100ml
ICCT43	Sr ²⁺	Sr(NO ₃) ₂	H ₂ O	0.2mg/ml (200ppm)	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

IC Multi-Element Standards

IC Multi-Element Standard, 9 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC9-100-100	NH ₄ ⁺	100	H ₂ O, tr. HNO ₃	100ml
	Ba ²⁺	100		
	Ca ²⁺	100		
	K ⁺	100		
	Li ⁺	100		
	Na ⁺	100		
	Mg ²⁺	100		
	Mn ²⁺	100		
	Sr ²⁺	100		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC7MIX5B	F ⁻	0.08	H ₂ O	250ml
	NO ₂ ⁻	0.08		
	Br ⁻	0.08		
	NO ₃ ⁻	0.15		
	PO ₄ ³⁻	0.15		
	CrO ₄	0.15		
	Cl ⁻	3		
	SO ₄ ²⁻	3		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-LGC-8-100	Li ⁺	100	0.005% HNO ₃	100ml
	Na ⁺	100		
	NH ₄ ⁺	100		
	K ⁺	100		
	Ca ²⁺	100		
	Mg ²⁺	100		
	Sr ²⁺	100		
	Ba ²⁺	100		

IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX10B	F ⁻	1.5	H ₂ O	250ml
	NO ₂ ⁻	1.5		
	Br ⁻	1.5		
	NO ₃ ⁻	3.5		
	PO ₄ ³⁻	3.5		
	CrO ₄	3.5		
	Cl ⁻	70		
	SO ₄ ²⁻	35		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX1B	F ⁻	0.08	H ₂ O	250ml
	NO ₂ ⁻	0.08		
	Br ⁻	0.08		
	NO ₃ ⁻	0.015		
	PO ₄ ³⁻	0.015		
	CrO ₄	0.015		
	Cl ⁻	0.3		
	SO ₄ ²⁻	0.15		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX2B	F ⁻	0.02	H ₂ O	250ml
	NO ₂ ⁻	0.02		
	Br ⁻	0.02		
	NO ₃ ⁻	0.03		
	PO ₄ ³⁻	0.03		
	CrO ₄	0.03		
	Cl ⁻	0.6		
	SO ₄ ²⁻	0.3		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX3B	F ⁻	0.04	H ₂ O	250ml
	NO ₂ ⁻	0.04		
	Br ⁻	0.04		
	NO ₃ ⁻	0.04		
	PO ₄ ³⁻	0.04		
	CrO ₄	0.04		
	Cl ⁻	0.8		
	SO ₄ ²⁻	0.4		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX4B	F ⁻	0.06	H ₂ O	250ml
	NO ₂ ⁻	0.06		
	Br ⁻	0.06		
	NO ₃ ⁻	0.07		
	PO ₄ ³⁻	0.07		
	CrO ₄	0.07		
	Cl ⁻	1.5		
	SO ₄ ²⁻	1.5		

IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX5B	F ⁻	0.08	H ₂ O	250ml
	NO ₂ ⁻	0.08		
	Br ⁻	0.08		
	NO ₃ ⁻	0.15		
	PO ₄ ³⁻	0.15		
	CrO ₄	0.15		
	Cl ⁻	3		
	SO ₄ ²⁻	3		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX6B	F ⁻	0.15	H ₂ O	250ml
	NO ₂ ⁻	0.15		
	Br ⁻	0.15		
	NO ₃ ⁻	0.3		
	PO ₄ ³⁻	0.3		
	CrO ₄	0.3		
	Cl ⁻	6		
	SO ₄ ²⁻	6		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX7B	F ⁻	0.3	H ₂ O	250ml
	NO ₂ ⁻	0.3		
	Br ⁻	0.3		
	NO ₃ ⁻	0.5		
	PO ₄ ³⁻	0.5		
	CrO ₄	0.5		
	Cl ⁻	10		
	SO ₄ ²⁻	8		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX8B	F ⁻	0.4	H ₂ O	250ml
	NO ₂ ⁻	0.4		
	Br ⁻	0.4		
	NO ₃ ⁻	0.8		
	PO ₄ ³⁻	0.8		
	CrO ₄	0.8		
	Cl ⁻	30		
	SO ₄ ²⁻	15		
IC Multi-Element Standard, 8 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7MIX9B	F ⁻	0.75	H ₂ O	250ml
	NO ₂ ⁻	0.75		
	Br ⁻	0.75		
	NO ₃ ⁻	1.5		
	PO ₄ ³⁻	1.5		
	CrO ₄	1.5		
	Cl ⁻	55		
	SO ₄ ²⁻	25		

IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-MIX1-500	F ⁻	1000	H ₂ O	1L
	Cl ⁻	1000		
	Br ⁻	1000		
	NO ₂ ⁻	1000		
	NO ₃ ⁻	1000		
	PO ₄ ³⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-MIX1	F ⁻	25	H ₂ O	250ml
	Cl ⁻	25		
	NO ₂ ⁻	25		
	Br ⁻	25		
	NO ₃ ⁻	25		
	PO ₄ ³⁻	25		
	SO ₄ ²⁻	25		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-DX-711	F ⁻	20	H ₂ O	100ml
	Cl ⁻	30		
	Br ⁻	100		
	NO ₂ ⁻	100		
	NO ₃ ⁻	100		
	PO ₄ ³⁻	150		
	SO ₄ ²⁻	150		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICMIX-7-100	Br ⁻	1000	H ₂ O	100ml
	Cl ⁻	1000		
	F ⁻	1000		
	NO ₂ ⁻	1000		
	NO ₃ ⁻	1000		
	PO ₄ ³⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-NHS-7	Na ⁺	2500	5% HNO ₃	250ml
	Ca ²⁺	100		
	K ⁺	100		
	Mg ²⁺	100		
	Zn ²⁺	5		
	Al ³⁺	0.5		
	Hg ²⁺	0.05		

IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-MIX-CYM-1000ml	F ⁻	2	H ₂ O	1L
	Cl ⁻	300		
	NO ₂ ⁻	10		
	Br ⁻	5		
	NO ₃ ⁻	100		
	PO ₄ ³⁻	100		
	SO ₄ ²⁻	400		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-MIX-CYM-500ml	F ⁻	2	H ₂ O	500ml
	Cl ⁻	300		
	NO ₂ ⁻	10		
	Br ⁻	5		
	NO ₃ ⁻	100		
	PO ₄ ³⁻	100		
	SO ₄ ²⁻	400		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-DX-721	PO ₄ ³⁻	200	H ₂ O	100ml
	Cl ⁻	100		
	Br ⁻	100		
	NO ₂ ⁻	100		
	NO ₃ ⁻	100		
	SO ₄ ²⁻	100		
	F ⁻	20		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-100-75	Cl ⁻	100	H ₂ O	75ml
	F ⁻	100		
	Br ⁻	100		
	NO ₂ ⁻	100		
	NO ₃ ⁻	100		
	SO ₄ ²⁻	100		
	PO ₄ ³⁻	100		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-50-100	F ⁻	50	H ₂ O	100ml
	Cl ⁻	50		
	Br ⁻	50		
	NO ₂ ⁻	50		
	NO ₃ ⁻	50		
	PO ₄ ³⁻	50		
	SO ₄ ²⁻	50		

IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-50-500	F ⁻	50	H ₂ O	500ml
	Cl ⁻	50		
	Br ⁻	50		
	NO ₂ ⁻	50		
	NO ₃ ⁻	50		
	PO ₄ ³⁻	50		
	SO ₄ ²⁻	50		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-CYM-100	Cl ⁻	1000	H ₂ O	100ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
	PO ₄ ³⁻	1000		
	F ⁻	100		
	Br ⁻	100		
	NO ₂ ⁻	100		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA7-CYM-250	Cl ⁻	1000	H ₂ O	250ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
	PO ₄ ³⁻	1000		
	F ⁻	100		
	Br ⁻	100		
	NO ₂ ⁻	100		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-ENV-6-5	F ⁻	100	H ₂ O	500ml
	NO ₂ ⁻	1000		
	NO ₃ ⁻	1000		
	PO ₄ ³⁻	1000		
	SO ₄ ²⁻	1000		
	Br ⁻	1000		
	Cl ⁻	1000		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICASP725	F ⁻	10	H ₂ O	250ml
	Cl ⁻	10		
	Br ⁻	10		
	NO ₂ ⁻	10		
	NO ₃ ⁻	10		
	PO ₄ ³⁻	10		
	SO ₄ ²⁻	10		

IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICASS07	Br ⁻	10	H ₂ O	250ml
	Cl ⁻	10		
	F ⁻	10		
	NO ₃ ⁻	10		
	NO ₂ ⁻	10		
	PO ₄ ³⁻	10		
	SO ₄ ²⁻	10		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-GLO-7-100	Cl ⁻	1000	H ₂ O	100ml
	SO ₄ ²⁻	1000		
	NO ₃ ⁻	1000		
	Br ⁻	100		
	NO ₂ ⁻	100		
	PO ₄ ³⁻	100		
	F ⁻	100		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-SYN-7	Cl ⁻	100	H ₂ O	100ml
	Br ⁻	100		
	NO ₂ ⁻	100		
	NO ₃ ⁻	100		
	SO ₄ ²⁻	100		
	F ⁻	20		
	PO ₄ ³⁻	200		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-LIS-601	F ⁻	50	H ₂ O	100ml
	Cl ⁻	1000		
	Br ⁻	100		
	NO ₂ ⁻	20		
	NO ₃ ⁻	200		
	PO ₄ ³⁻	15		
	SO ₄ ²⁻	5000		
IC Multi-Element Standard, 7 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-MIX3	F ⁻	100	H ₂ O	500ml
	PO ₄ ³⁻	100		
	Cl ⁻	200		
	NO ₂ ⁻	20		
	Br ⁻	40		
	NO ₃ ⁻	20		
	SO ₄ ²⁻	5000		

IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-GLO-6-500	Br ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	Cl ⁻	1000		
	PO ₄ ³⁻	1000		
	F ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-MIX4	Li ⁺	20	H ₂ O	250ml
	Na ⁺	20		
	NH ₄ ⁺	20		
	K ⁺	20		
	Mg ²⁺	40		
	Ca ²⁺	40		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-LGC-6-100	F ⁻	100	H ₂ O	100ml
	Cl ⁻	100		
	SO ₄ ²⁻	100		
	NO ₃ ⁻	100		
	NO ₂ ⁻	100		
	PO ₄ ³⁻	100		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-10PPM-6	F ⁻	10	H ₂ O	100ml
	Cl ⁻	10		
	Br ⁻	10		
	NO ₃ ⁻	10		
	PO ₄ ³⁻	10		
	SO ₄ ²⁻	10		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC-DX-611	Ca ²⁺	1000	H ₂ O	100ml
	NH ₄ ⁺	400		
	Na ⁺	200		
	K ⁺	200		
	Mg ²⁺	200		
	Li ⁺	50		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-BMS-65	NO ₃ ⁻	200	H ₂ O	500ml
	SO ₄ ²⁻	200		
	PO ₄ ³⁻	200		
	Br ⁻	100		
	F ⁻	100		

IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC6-100-100	NO ₂ ⁻	100	H ₂ O	100ml
	NO ₃ ⁻	100		
	Cl ⁻	100		
	SO ₄ ²⁻	100		
	F ⁻	100		
	PO ₄ ³⁻	100		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA6-10-100	F ⁻	10	H ₂ O	100ml
	Cl ⁻	10		
	Br ⁻	10		
	NO ₃ ⁻	10		
	PO ₄ ³⁻	10		
	SO ₄ ²⁻	10		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA6-CYM	Cl ⁻	1000	H ₂ O	250ml
	PO ₄ ³⁻	1000		
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
	F ⁻	100		
	Br ⁻	100		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA6-MIX1-500	F ⁻	100	H ₂ O	500ml
	Br ⁻	100		
	Cl ⁻	1000		
	NO ₃ ⁻	1000		
	PO ₄ ³⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA6-MIX2-100	F ⁻	1000	H ₂ O	100ml
	Cl ⁻	1000		
	SO ₄ ²⁻	1000		
	NO ₂ ⁻	1000		
	NO ₃ ⁻	1000		
	PO ₄ ³⁻	1000		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA6-MIX-THG	NO ₃ ⁻	100	H ₂ O	100ml
	PO ₄ ³⁻	100		
	Cl ⁻	250		
	SO ₄ ²⁻	250		
	NO ₂ ⁻	10		
	F ⁻	30		

IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC-DX-621	Li ⁺	50	H ₂ O	100ml
	Na ⁺	200		
	NH ₄ ⁺	250		
	Mg ²⁺	250		
	Ca ²⁺	500		
	K ⁺	500		
IC Multi-Element Standard, 6 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-CL-7E6	Cl ⁻	2500	H ₂ O	500ml
	SO ₄ ²⁻	2500		
	NO ₃ ⁻	300		
	F ⁻	50		
	NO ₂ ⁻	75		
	Br ⁻	75		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC-MX-WRC5	Na ⁺	100	H ₂ O	500ml
	K ⁺	100		
	Ca ²⁺	400		
	Mg ²⁺	200		
	NH ₄ ⁺	100		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-DX-51	F ⁻	20	H ₂ O	100ml
	Cl ⁻	30		
	NO ₃ ⁻	100		
	PO ₄ ³⁻	150		
	SO ₄ ²⁻	150		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA5-MIX1-500	F ⁻	100	H ₂ O	500ml
	Cl ⁻	1000		
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
	PO ₄ ³⁻	1000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA5-MIX2-100	F ⁻	10	H ₂ O	100ml
	Cl ⁻	10		
	SO ₄ ²⁻	10		
	NO ₂ ⁻	10		
	NO ₃ ⁻	10		

IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5-1000-75	Li ⁺	1000	2-5% HNO ₃	75ml
	Na ⁺	1000		
	K ⁺	1000		
	Mg ²⁺	1000		
	Ca ²⁺	1000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX10B	Ca ²⁺	15	H ₂ O	250ml
	K ⁺	15		
	Mg ²⁺	15		
	Na ⁺	15		
	NH ₄ ⁺	15		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5-MIX1-100	Na ⁺	40	H ₂ O	100ml
	NH ₄ ⁺	40		
	K ⁺	40		
	Mg ²⁺	40		
	Ca ²⁺	200		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX11B	Ca ²⁺	20	H ₂ O	250ml
	K ⁺	20		
	Mg ²⁺	20		
	Na ⁺	20		
	NH ₄ ⁺	20		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX12B	Ca ²⁺	5000	H ₂ O	250ml
	K ⁺	5000		
	Mg ²⁺	5000		
	Na ⁺	5000		
	NH ₄ ⁺	5000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX13B	Ca ²⁺	10000	H ₂ O	250ml
	K ⁺	10000		
	Mg ²⁺	10000		
	Na ⁺	10000		
	NH ₄ ⁺	10000		

IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX14A	Ca ²⁺	20	H ₂ O	100ml
	K ⁺	2		
	Mg ²⁺	20		
	Na ⁺	10		
	NH ₄ ⁺	2		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX1B	Ca ²⁺	0.1	H ₂ O	250ml
	K ⁺	0.1		
	Mg ²⁺	0.1		
	Na ⁺	0.1		
	NH ₄ ⁺	0.1		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX2B	Ca ²⁺	0.25	H ₂ O	250ml
	K ⁺	0.25		
	Mg ²⁺	0.25		
	Na ⁺	0.25		
	NH ₄ ⁺	0.25		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX3B	Ca ²⁺	0.5	H ₂ O	250ml
	K ⁺	0.5		
	Mg ²⁺	0.5		
	Na ⁺	0.5		
	NH ₄ ⁺	0.5		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX4B	Ca ²⁺	0.75	H ₂ O	250ml
	K ⁺	0.75		
	Mg ²⁺	0.75		
	Na ⁺	0.75		
	NH ₄ ⁺	0.75		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX5B	Ca ²⁺	1	H ₂ O	250ml
	K ⁺	1		
	Mg ²⁺	1		
	Na ⁺	1		
	NH ₄ ⁺	1		

IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX6B	Ca ²⁺	2.5	H ₂ O	250ml
	K ⁺	2.5		
	Mg ²⁺	2.5		
	Na ⁺	2.5		
	NH ₄ ⁺	2.5		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX7B	Ca ²⁺	5	H ₂ O	250ml
	K ⁺	5		
	Mg ²⁺	5		
	Na ⁺	5		
	NH ₄ ⁺	5		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX8B	Ca ²⁺	7.5	H ₂ O	250ml
	K ⁺	7.5		
	Mg ²⁺	7.5		
	Na ⁺	7.5		
	NH ₄ ⁺	7.5		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5MIX9B	Ca ²⁺	10	H ₂ O	250ml
	K ⁺	10		
	Mg ²⁺	10		
	Na ⁺	10		
	NH ₄ ⁺	10		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC5-MIX-THG	NH ₄ ⁺	10	H ₂ O	100ml
	Na ⁺	100		
	K ⁺	30		
	Mg ²⁺	50		
	Ca ²⁺	50		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICCS06	Ca ²⁺	10	2% HNO ₃	250ml
	Li ⁺	10		
	Mg ²⁺	10		
	K ⁺	10		
	Na ⁺	10		

IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA5MIX2A	F ⁻	8	H ₂ O	100ml
	Cl ⁻	24		
	NO ₃ ⁻	16		
	PO ₄ ³⁻	16		
	SO ₄ ²⁻	16		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA5-TYD-500	F ⁻	100	H ₂ O	500ml
	Cl ⁻	250		
	NO ₃ ⁻	500		
	SO ₄ ²⁻	500		
	PO ₄ ³⁻	1000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-AIT-5-100	Cl ⁻	1000	H ₂ O	100ml
	PO ₄ ³⁻	1000		
	NO ₂ ⁻	1000		
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA5-TYD-ST-I	F ⁻	100	H ₂ O	500ml
	Cl ⁻	250		
	NO ₃ ⁻	500		
	SO ₄ ²⁻	500		
	PO ₄ ³⁻	1000		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICAS501	F ⁻	100	H ₂ O	100ml
	Cl ⁻	100		
	NO ₂ ⁻	200		
	PO ₄ ³⁻	200		
	SO ₄ ²⁻	200		
IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC-10PPM-5	Li ⁺	10	H ₂ O	100ml
	Na ⁺	10		
	K ⁺	10		
	Mg ²⁺	10		
	Ca ²⁺	10		

IC Multi-Element Standard, 5 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICMIX-5-100	NH ₄ ⁺	1000	H ₂ O	100ml
	Ca ²⁺	1000		
	Mg ²⁺	1000		
	K ⁺	1000		
	Na ⁺	1000		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-NHS-4-500	Na ⁺	100	H ₂ O	500ml
	K ⁺	10		
	Mg ²⁺	1		
	Ca ²⁺	5		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-SDN5-100	Na ⁺	25	H ₂ O	100ml
	K ⁺	100		
	Mg ²⁺	5		
	Ca ²⁺	50		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-SDN5-500	Na ⁺	25	H ₂ O	500ml
	K ⁺	100		
	Mg ²⁺	5		
	Ca ²⁺	50		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC4-MIX1-100	Na ⁺	1000	H ₂ O	100ml
	Mg ²⁺	1000		
	Ca ²⁺	1000		
	K ⁺	1000		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC4-MIX1-250	Na ⁺	1000	H ₂ O	250ml
	Mg ²⁺	1000		
	Ca ²⁺	1000		
	K ⁺	1000		

IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC4MIX2A	Na ⁺	10	H ₂ O	100ml
	Mg ²⁺	10		
	Ca ²⁺	10		
	K ⁺	10		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-NHS-4	Na ⁺	100	H ₂ O	100ml
	K ⁺	10		
	Mg ²⁺	1		
	Ca ²⁺	5		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC4-1000-500	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
	NO ₂ ⁻	1000		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC4-100-100	Cl ⁻	100	H ₂ O	100ml
	NO ₃ ⁻	100		
	SO ₄ ²⁻	100		
	NO ₂ ⁻	100		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA4MIX2A	Cl ⁻	10	H ₂ O	100ml
	NO ₂ ⁻	2		
	NO ₃ ⁻	2		
	SO ₄ ²⁻	20		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA4-SER	Cl ⁻	100	H ₂ O	100ml
	NO ₃ ⁻	100		
	SO ₄ ²⁻	100		
	NO ₂ ⁻	100		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC4-1002-100	Ca ²⁺	100	H ₂ O	100ml
	Mg ²⁺	100		
	Na ⁺	100		
	K ⁺	100		

IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-TG-45	PO ₄ ³⁻	10	H ₂ O	500ml
	NO ₃ ⁻	300		
	NH ₄ ⁺	150		
	Cl ⁻	3000		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-MX-WRC4	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	200		
	PO ₄ ³⁻	100		
	SO ₄ ²⁻	1200		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-CL-6E4	Cl ⁻	2500	H ₂ O	500ml
	SO ₄ ²⁻	2500		
	NO ₃ ⁻	300		
	F ⁻	50		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-CL-8E4	Cl ⁻	75	H ₂ O	500ml
	SO ₄ ²⁻	75		
	NO ₃ ⁻	3		
	F ⁻	1		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICCMX01	Ca ²⁺	1500	H ₂ O	100ml
	Mg ²⁺	500		
	Na ⁺	500		
	K ⁺	250		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICCMX05	Ca ²⁺	1500	H ₂ O	500ml
	Mg ²⁺	500		
	Na ⁺	500		
	K ⁺	250		
IC Multi-Element Standard, 4 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-MIX2	F ⁻	1	H ₂ O	250ml
	Cl ⁻	250		
	SO ₄ ²⁻	250		
	NO ₃ ⁻	50		

IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-TG-35	PO ₄ ³⁻	100	H ₂ O	500ml
	NH ₄ ⁺	1000		
	NO ₃ ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-NHS-3	Na ⁺	200	H ₂ O, tr. HNO ₃	100ml
	K ⁺	10		
	Mg ²⁺	2		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC3-1000-500	F ⁻	1000	H ₂ O	500ml
	PO ₄ ³⁻	1000		
	Br ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC3-2-1000-100	F ⁻	1000	H ₂ O	100ml
	PO ₄ ³⁻	1000		
	Br ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC3-2-1000-500	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX1-100	SO ₄ ²⁻	1000	H ₂ O	100ml
	F ⁻	1000		
	Cl ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX1-250	SO ₄ ²⁻	1000	H ₂ O	250ml
	F ⁻	1000		
	Cl ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX1-500	SO ₄ ²⁻	1000	H ₂ O	500ml
	F ⁻	1000		
	Cl ⁻	1000		

IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX2-500	Cl ⁻	150	H ₂ O	500ml
	NO ₃ ⁻	100		
	SO ₄ ²⁻	500		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX3-100	F ⁻	10	H ₂ O	100ml
	SO ₄ ²⁻	10		
	Cl ⁻	10		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-MIX3-A	F ⁻	10	H ₂ O	100ml
	SO ₄ ²⁻	10		
	Cl ⁻	10		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-SER	F ⁻	1000	H ₂ O	100ml
	PO ₄ ³⁻	1000		
	Br ⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-TYD-ST-II	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA3-TYD-ST-II	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-AIT-35	Cl ⁻	1000	H ₂ O	500ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-MIX-301	Br ⁻	1000	H ₂ O	100ml
	NO ₃ ⁻	1000		
	SO ₄ ²⁻	1000		

IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-MIX-TYD	F ⁻	1000	H ₂ O	500ml
	Br ⁻	1000		
	PO ₄ ³⁻	1000		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICA-MX3-250	F ⁻	100	H ₂ O	250ml
	NO ₂ ⁻	100		
	PO ₄ ³⁻	100		
IC Multi-Element Standard, 3 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
IC-FBA-CUSTOM-100ML	K ⁺	5000	1% HNO ₃	100ml
	Mg ²⁺	5000		
	P	300		
IC Multi-Element Standard, 2 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
ICC-AIT-2-100	K ⁺	1000	H ₂ O	100ml
	Na ⁺	1000		
IC Multi-Element Standard, 2 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
REICA2MIX1D	CH ₃ COO ⁻	100	H ₂ O	50ml
	SO ₃ ²⁻	100		
IC Multi-Element Standard, 2 Elements				
Product No.	Elements	Conc. µg/ml	Matrix	Pack Size
REICA2MIX1A	CH ₃ COO ⁻	100	H ₂ O	100ml
	SO ₃ ²⁻	100		