

Standard Solutions (Traceable to NIST)

- Multi Element ICP Standard Solutions
(Inductively Coupled Plasma Spectroscopy)
- Single Element ICP Standard Solutions
(Inductively Coupled Plasma Spectroscopy)
- AAS Standard Solutions
(Atomic Absorption Spectrophotometry)
- Ready to Use Volumetric Standard Solutions
- Conductivity Standards



Standard Solutions (Traceable to NIST)

In choosing the most appropriate analytical method to determine metals, each laboratory must consider the sample type and concentration levels, the number of elements to be determined and the costs the choice implies.

As a result, flame and atomic absorption spectrophotometry (AAS) and inductively coupled plasma (ICP) emission spectrometry are the most widely used analytical methods for determining trace elements.

Certified reference materials

Loba Chemie offers the following product lines for reference analytical techniques for the analysis of metals (AAS & ICP). They differ by the purity of the raw materials used, the type of packaging and the ratio of traceability to a NIST primary standard.

- **for plasma emission spectrometry (ICP)**
 - ready-to-use single-element standard solution
 - ready-to-use multi-element standard solution
- **for atomic absorption spectrophotometry**
 - ready-to-use single-element standard solution
- **conductivity standard solution for measurement of conductivity**
- **ready to use volumetric standard solution**

For Plasma Emission Spectrometry

ICP is a widely used analytical technique for trace metal analysis. It is based on a simultaneous system which allows quick and convenient analyses for a large number of determinable elements. One of the latest technological advances in the area of coupled analytical techniques involves the optimization of the ICP technique, a versatile and vital instrument for the quick and reliable analysis of trace and ultra-trace metals.

Single-Element Standard Solution for ICP

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually hydrochloric or nitric acid). They are characterized by:

- Concentrations of 1000 ppm and 10000 ppm;
- Guaranteed titer with a tolerance of 0.2% at the 95% confidence level;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100 ml and 500 ml polyethylene bottles;
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, is 4 years.

Element	Matrix	Code			
		1GM/L		10GM/L	
		100 ML	500ML	100 ML	500ML
Aluminium (Al)	Hydrochloric Acid	I100H00100	I100H00500	I200H00100	I200H00500
Aluminium (Al)	Nitric Acid	I100N00100	I100N00500	I200N00100	I200N00500
Antimony (Sb)	Hydrochloric Acid	I300H00100	I300H00500	I400H00100	I400H00500
Arsenic (As)	Nitric Acid	I500N00100	I500N00500	I600N00100	I600N00500
Barium (Ba)	Hydrochloric Acid	I700H00100	I700H00500	I800H00100	I800H00500
Barium (Ba)	Nitric Acid	I700N00100	I700N00500	I800N00100	I800N00500
Bismuth (Bi)	Nitric Acid	I900N00100	I900N00500	I110N00100	I110N00500
Boron (B)	Water	I112W00100	I112W00500	I111W00100	I111W00500
Cadmium (Cd)	Nitric Acid	I113N00100	I113N00500	I114N00100	I114N00500
Calcium (Ca)	Hydrochloric Acid	I115H00100	I115H00500	I116H00100	I116H00500

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Single-Element Standard solution for ICP (contd.)

Element	Matrix	Code			
		1GM/L		10GM/L	
		100 ML	500ML	100 ML	500ML
Calcium (Ca)	Nitric Acid	I115N00100	I115N00500	I116N00100	I116N00500
Cerium (Ce)	Nitric Acid	I117N00100	I117N00500	I118N00100	I118N00500
Cesium (Cs)	Water	I119W00100	I119W00500	I120W00100	I120W00500
Cesium (Cs)	Nitric Acid	I119N00100	I119N00500	I120N00100	I120N00500
Chromium (Cr)	Hydrochloric Acid	I121H00100	I121H00500	I122H00100	I122H00500
Chromium (Cr)	Nitric Acid	I121N00100I	I121N00500	I122N00100I	I122N00500
Cobalt (Co)	Nitric Acid	I123N00100I	I123N00500	I124N00100	I124N00500
Copper (Cu)	Nitric Acid	I125N00100I	I125N00500I	I126N00100I	I126N00500
Gold (Au)	Hydrochloric Acid	I127H00100	I127H00500	I128H00100	I128H00500
Iron (Fe)	Hydrochloric Acid	I129H00100	I129H00500	I130H00100	I130H00500
Iron (Fe)	Nitric Acid	I129N00100	I129N00500	I130N00100	I130N00500
Lead (Pb)	Nitric Acid	I131N00100	I131N00500	I132N00100	I132N00500
Lithium (Li)	Nitric Acid	I133N00100	I133N00500	I134N00100	I134N00500
Magnesium (Mg)	Nitric Acid	I135N00100	I135N00500	I136N00100	I136N00500
Manganese (Mn)	Hydrochloric Acid	I137H00100I	I137H00500	I138H00100	I138H00500
Manganese (Mn)	Nitric Acid	I137N00100	I137N00500	I138N00100	I138N00500
Mercury (Hg)	Nitric Acid	I139N00100	I139N00500	I140N00100	I140N00500
Nickel (Ni)	Nitric Acid	I141N00100	I141N00500	I142N00100	I142N00500
Palladium (Pd)	Hydrochloric Acid	I143H00100	I143H00500	I144H00100	I144H00500
Phosphorous (P)	Water	I145W00100I	I145W00500	I146W00100	I146W00500
Potassium (K)	Nitric Acid	I147N00100	I147N00500	I148N00100	I148N00500
Potassium (K)	Water	I147W00100	I147W00500	I148W00100	I148W00500
Silver (Ag)	Nitric Acid	I150N00100	I150N00500	I149N00100	I149N00500
Sodium (Na)	Water	I152W00100	I152W00500	I151W00100	I151W00500
Sodium (Na)	Nitric Acid	I152N00100	I152N00500	I151N00100	I151N00500
Strontium (Sr)	Nitric Acid	I153N00100	I153N00500	I154N00100	I154N00500
Strontium (Sr)	Hydrochloric Acid	I153H00100	I153H00500	I154H00100	I154H00500
Sulphur (S)	Water	I156W00100	I156W00500	I155W00100	I155W00500
Tellurium (Te)	Nitric Acid	I157N00100	I157N00500	I158N00100	I158N00500
Tin (Sn)	Hydrochloric Acid	I159H00100	I159H00500	I160H00100	I160H00500
Vanadium (V)	Nitric Acid	I161N00100	I161N00500	I162N00100	I162N00500
Zinc (Zn)	Hydrochloric Acid	I163H00100	I163H00500	I164H00100	I164H00500
Zinc (Zn)	Nitric Acid	I163N00100	I163N00500	I164N00100	I164N00500

Multi-Element Standard Solution for ICP

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually hydrochloric or nitric acid). They are characterized by:

- Concentrations of 10 ppm and 100 ppm;
- Available in 50 ml and 100 ml polyethylene bottles;
- Shelf life, for the unopened product package, is 2 years.

Code	Element	Packing	Packing Code
I165N	20 components; 10mg/l each of Ce ; Dy ; Er ; Eu ; Ga ; Gd ; Ho ; In ; La ; Lu ; Nd ; Pr ; Sc ; Sm ; Tb ; Th ; Tm ; U ; Y ; Yb in 2% HNO ₃	50 ml 100 ml	I165N00050 I165N00100
I166N	33 components 100 mg/l Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Cs, Co, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, V, U, Zn in 5% HNO ₃ .	50 ml 100 ml	I166N00050 I166N00100

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Multi-Element Standard solution for ICP (contd.)

Code	Element	Packing	Packing Code
I167W	3 components; 10mg/l each of P ; S ; Si in H ₂ O .	50 ml 100 ml	I167W00050 I167W00100
I168N	10 components; 10mg/l each of Ag ; Al ; As ; B ; Ba ; Bi ; Ca ; Cd ; Na ; K in 5% HNO ₃ .	50 ml 100 ml	I168N00050 I168N00100
I170N	9 components; 10mg/l each of Fe ; Pb ; Cu ; Cr ; Co ; Mg ; Mn ; Ni ; Mo in 5% HNO ₃ .	50 ml 100 ml	I170N00050 I170N00100
I171N	8 components; 10mg/l each of V ; Zn ; Sr ; Li ; Pb ; Fe ; Na ; K in 5% HNO ₃ .	50 ml 100 ml	I171N00050 I171N00100
I172H	6 components; 10mg/l each of Au ; Rh ; Pd ; Ru ; Ir ; Pt in 5% HCl .	50 ml 100 ml	I172H00050 I172H00100
I173N	10 components; 100mg/l each of Ag ; Al ; As ; B ; Ba ; Bi ; Ca ; Cd ; Na ; K in 5% HNO ₃ .	50 ml 100 ml	I173N00050 I173N00100
I174N	9 components; 100mg/l each of Fe ; Pb ; Cu ; Cr ; Co ; Mg ; Mn ; Ni ; Mo in 5% HNO ₃ .	50 ml 100 ml	I174N00050 I174N00100
I175N	8 components; 100mg/l each of V ; Zn ; Sr ; Li ; Pb ; Fe ; Na ; K in 5% HNO ₃ .	50 ml 100 ml	I175N00050 I175N00100
I176H	6 components; 100mg/l each of Au ; Rh ; Pd ; Ru ; Ir ; Pt in 5% HCl.	50 ml 100 ml	I176H00050 I176H00100
I177N	4 components; 1000mg/l each of Ca ; K ; Mg ; Na in 2% HNO ₃	50 ml 100 ml	I177N00050 I177N00100
I178H	15 components; 10mg/l each of Pt ; Pd ; Rh ; Ir ; Au ; Ru ; Zr ; Hf ; Ta ; W ; Ge ; Te ; Os ; Re ; Sn in 5% HCl .	50 ml 100 ml	I178H00050 I178H00100

For Atomic Absorption Spectrophotometry

Atomic absorption is the most sensitive technique available to analysts for the determination of metal impurities. It is a technique based on a sequential system which is generally slow but achieves sensitivity limits unattainable with other instrumental techniques.

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.9%, in an acid (usually hydrochloric or nitric acid). They are characterized by:

- Concentration of the metal equal to 1000 ppm
- Guaranteed titer with a ± 0.002 unit tolerance
- Available in 100ml and 500ml bottles in polyethylene or glass depending on compatibility
- Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, of 4 years.

Element	Matrix	Code	
		100 ML	500ML
Silver (Ag)	Nitric Acid	A100N00100	A100N00500
Cadmium (Cd)	Hydrochloric Acid	A110H00100	A110H00500
Cadmium (Cd)	Nitric Acid	A110N00100	A110N00500
Cerium (Ce)	Nitric Acid	A120N00100	A120N00500
Cobalt (Co)	Hydrochloric Acid	A130H00100	A130H00500
Cobalt (Co)	Nitric Acid	A130N00100	A130N00500
Chromium (Cr)	Hydrochloric Acid	A140H00100	A140H00500
Chromium (Cr)	Nitric Acid	A140N00100	A140N00500
Cesium (Ce)	Nitric Acid	A150N00100	A150N00500
Copper (Cu)	Hydrochloric Acid	A160H00100	A160H00500

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AAS Standard solution (contd.)

Element	Matrix	Code	
		100 ML	500ML
Copper (Cu)	Nitric Acid	A160N00100	A160N00500
Iron (Fe)	Hydrochloric Acid	A170H00100	A170H00500
Iron (Fe)	Nitric Acid	A170N00100	A170N00500
Mercury (Hg)	Nitric Acid	A180N00100	A180N00500
Aluminium (Al)	Hydrochloric Acid	A200H00100	A200H00500
Aluminium (Al)	Nitric Acid	A200N00100	A200N00500
Potassium (K)	Hydrochloric Acid	A210H00100	A210H00500
Potassium (K)	Nitric Acid	A210N00100	A210N00500
Lanthanum (La)	Hydrochloric Acid	A220H00100	A220H00500
Lanthanum (La)	Nitric Acid	A220N00100	A220N00500
Lithium (Li)	Nitric Acid	A230N00100	A230N00500
Magnesium (Mg)	Hydrochloric Acid	A240H00100	A240H00500
Magnesium (Mg)	Nitric Acid	A240N00100	A240N00500
Manganese (Mn)	Hydrochloric Acid	A250H00100	A250H00500
Manganese (Mn)	Nitric Acid	A250N00100	A250N00500
Sodium (Na)	Hydrochloric Acid	A260H00100	A260H00500
Sodium (Na)	Nitric Acid	A260N00100	A260N00500
Nickel (Ni)	Nitric Acid	A270N00100	A270N00500
Phosphorus (P)	Water	A280W00100	A280W00500
Lead (Pb)	Nitric Acid	A290N00100	A290N00500
Arsenic (As)	Hydrochloric Acid	A300H00100	A300H00500
Arsenic (As)	Nitric Acid	A300N00100	A300N00500
Palladium (Pd)	Hydrochloric Acid	A310H00100	A310H00500
Antimony (Sb)	Hydrochloric Acid	A320H00100	A320H00500
Tin (Sn)	Hydrochloric Acid	A330H00100	A330H00500
Strontium (Sr)	Hydrochloric Acid	A340H00100	A340H00500
Strontium (Sr)	Nitric Acid	A340N00100	A340N00500
Tellurium (Te)	Hydrochloric Acid	A350H00100	A350H00500
Tellurium (Te)	Nitric Acid	A350N00100	A350N00500
Vanadium (V)	Nitric Acid	A360N00100	A360N00500
Vanadium (V)	Sulphuric Acid	A360S00100	A360S00500
Zinc (Zn)	Hydrochloric Acid	A370H00100	A370H00500
Zinc (Zn)	Nitric Acid	A370N00100	A370N00500
Boron (B)	Water	A400W00100	A400W00500
Barium (Ba)	Hydrochloric Acid	A500H00100	A500H00500
Barium (Ba)	Nitric Acid	A500N00100	A500N00500
Beryllium (Be)	Hydrochloric Acid	A600H00100	A600H00500
Bismuth (Bi)	Nitric Acid	A700N00100	A700N00500
Calcium (Ca)	Hydrochloric Acid	A800H00100	A800H00500
Calcium (Ca)	Nitric Acid	A800N00100	A800N00500

Ready to use volumetric standard solution

Ready-to-use analytical solutions are manufactured to stringent specifications and utilize quality control procedures to reduce lot-to-lot variability. You can eliminate the time and expense of preparation and standardization of solutions, helping streamline high-volume analytical work in applications such as quality control, and you can also obtain customized solutions and packaging sizes.

These ready to use volumetric standard solution are characterized by:

- Certificate of analysis with references on the analytical method, the NIST standard reference material
- Traceable to NIST standard reference materials
- Available in 1000ml bottles in polyethylene or glass depending on compatibility
- Shelf life, for the unopened product package, of 3-4 years.

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Ready to use volumetric standard solution (contd.)

Product Code	Product Name	Packing	Packing Code
R100A	Acetic Acid 0.1M (0.1N)	1 L	R100A01000
R100B	Acetic Acid 2M (2N)	1 L	R100B01000
R200A	Ammonia 0.1M (0.1N)	1 L	R200A01000
R300A	Ammonium Iron (II) Sulphate 0.1M (0.1N)	1 L	R300A01000
R400A	Ammonium Sulphate 0.5M (1N)	1 L	R400A01000
R500A	Ammonium Thiocyanate 0.1M (0.1N)	1 L	R500A01000
R500B	Ammonium Thiocyanate 1M (1N)	1 L	R500B01000
R600A	Barium Chloride 0.05M (0.1N)	1 L	R600A01000
R800A	Bromine Bromate/Bromide 0.05M (0.1N)	1 L	R800A01000
R900A	Calcium Chloride 0.005M(0.01N)	1 L	R900A01000
R900B	Calcium Chloride 0.01M (0.02N)	1 L	R900B01000
R110A	Cerium (IV) Sulphate 0.05M (0.05N)	1 L	R110A01000
R110B	Cerium (IV) Sulphate 0.1M (0.1N)	1 L	R110B01000
R120A	Copper(II)Sulphate 0.1M (0.1N)	1 L	R120A01000
R130A	Edta Disodium Salt 0.01M (0.02N)	1 L	R130A01000
R130B	Edta Disodium Salt 0.1M (0.2N)	1 L	R130B01000
R130C	Edta Disodium Salt 0.5M (1N)	1 L	R130C01000
R700A	Hyamine 1622 Solution 0.004M (0.004N)	1 L	R700A01000
R700B	Hyamine 1622 Solution 0.04M (0.04N)	1 L	R700B01000
R140A	Hydrochloric Acid 0.05M (0.05N)	1 L	R140A01000
R140B	Hydrochloric Acid 0.1M (0.1N)	1 L	R140B01000
R140C	Hydrochloric Acid 0.25M (0.25N)	1 L	R140C01000
R140D	Hydrochloric Acid 0.2M (0.2N)	1 L	R140D01000
R140I	Hydrochloric Acid 0.5M (0.5N)	1 L	R140I01000
R140E	Hydrochloric Acid 1M (1N)	1 L	R140E01000
R140F	Hydrochloric Acid 2M (2N)	1 L	R140F01000
R140G	Hydrochloric Acid 5M (5N)	1 L	R140G01000
R140H	Hydrochloric Acid 6M (6N)	1 L	R140H01000
R150A	Iodine 0.02365M (0.0473N)	1 L	R150A01000
R150B	Iodine 0.05M (0.1N)	1 L	R150B01000
R150C	Iodine 0.5M (1N)	1 L	R150C01000
R160A	Iron (II) Sulphate 0.1M (0.1N)	1 L	R160A01000
R170A	Lead (II) Nitrate 0.01M (0.02N)	1 L	R170A01000
R170B	Lead (II) Nitrate 0.5M (1N)	1 L	R170B01000
R180A	Magnesium Chloride 0.01M (0.02N)	1 L	R180A01000
R190B	Mercuric (Mercury) (II) Nitrate 0.01M (0.02N)	1 L	R190B01000
R190C	Mercuric (Mercury) (II) Nitrate 0.05M (0.1N)	1 L	R190C01000
R190A	Mercurous (Mercuric) (I) Nitrate 0.1M (0.1N)	1 L	R190A01000
R210A	Nitric Acid 0.01M (0.01N)	1 L	R210A01000
R210B	Nitric Acid 1M (1N)	1 L	R210B01000
R210C	Nitric Acid 2M (2N)	1 L	R210C01000
R210D	Nitric Acid 4M (4N)	1 L	R210D01000
R210E	Nitric Acid 8M (8N)	1 L	R210E01000
R220A	Oxalic Acid 0.025M (0.05N)	1 L	R220A01000
R220B	Oxalic Acid 0.05M (0.1N)	1 L	R220B01000
R220C	Oxalic Acid 0.5M (1N)	1 L	R220C01000
R230A	Perchloric Acid 0.1M (0.1N)	1 L	R230A01000
R230B	Perchloric Acid 1M (1N)	1 L	R230B01000
R240A	Potassium Bromate 0.01667M (0.1N)	1 L	R240A01000
R240B	Potassium Bromide 0.5M (0.5N)	1 L	R240B01000
R240C	Potassium Bromide 1M (1N)	1 L	R240C01000
R250A	Potassium Chloride 0.5M (0.5N)	1 L	R250A01000
R250B	Potassium Chloride 1M (1N)	1 L	R250B01000

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Ready to use volumetric standard solution (contd.)

Product Code	Product Name	Packing	Packing Code
R260A	Potassium Chromate 0.0333M (0.1N)	1 L	R260A01000
R270A	Potassium Dichromate 0.0167M (0.1N)	1 L	R270A01000
R270B	Potassium Dichromate 0.0417M (0.25N)	1 L	R270B01000
R270C	Potassium Dichromate 0.167M (1N)	1 L	R270C01000
R280A	Potassium Hydrogen Phthalate 0.1M (0.1N)	1 L	R280A01000
R290A	Potassium Hydroxide 0.05M (0.05N)	1 L	R290A01000
R320A	Potassium Hydroxide 0.1M (0.1N)	1 L	R320A01000
R320B	Potassium Hydroxide 0.5M (0.5N)	1 L	R320B01000
R320C	Potassium Hydroxide 1M (1N)	1 L	R320C01000
R310A	Potassium Hydroxide In Ethanol 0.1M (0.1N)	1 L	R310A01000
R330A	Potassium Hydroxide In Ethanol 0.5M (0.5N)	1 L	R330A01000
R330B	Potassium Hydroxide In Methanol 1M (1N)	1 L	R330B01000
R340A	Potassium Iodate 0.0147M (0.08833N)	1 L	R340A01000
R340B	Potassium Iodate 0.01667M (0.1N)	1 L	R340B01000
R340C	Potassium Iodate 0.05M (0.3N)	1 L	R340C01000
R340D	Potassium Iodide 0.1M (0.1N)	1 L	R340D01000
R340E	Potassium Iodide 1M (1N)	1 L	R340E01000
R340F	Potassium Iodide 3M (3N)	1 L	R340F01000
R350A	Potassium Permanganate 0.01M (0.05N)	1 L	R350A01000
R350B	Potassium Permanganate 0.02M (0.1N)	1 L	R350B01000
R350C	Potassium Permanganate 0.05M (0.25N)	1 L	R350C01000
R350D	Potassium Permanganate 0.2 (1N)	1 L	R350D01000
R360A	Potassium Thiocyanate 0.1M (0.1N)	1 L	R360A01000
R370A	Silver Nitrate 0.01M (0.01N)	1 L	R370A01000
R370B	Silver Nitrate 0.05M (0.05N)	1 L	R370B01000
R370C	Silver Nitrate 0.1M (0.1N)	1 L	R370C01000
R370D	Silver Nitrate 0.5M (0.5N)	1 L	R370D01000
R370E	Silver Nitrate 1M (1N)	1 L	R370E01000
R380B	Sodium Arsenite 0.005M (0.01N)	1 L	R380B01000
R380A	Sodium Arsenite 0.05M (0.1N)	1 L	R380A01000
R380C	Sodium Arsenite 0.15M (0.3N)	1 L	R380C01000
R390C	Sodium Carbonate 0.05(1N)	1 L	R390C01000
R390A	Sodium Carbonate 0.05M (0.1N)	1 L	R390A01000
R390B	Sodium Carbonate 0.5M (1N)	1 L	R390B01000
R410A	Sodium Chloride 0.05M (0.05N)	1 L	R410A01000
R410B	Sodium Chloride 0.1M (0.1N)	1 L	R410B01000
R410C	Sodium Chloride 1M (1N)	1 L	R410C01000
R420A	Sodium Hydroxide 0.02M (0.02N)	1 L	R420A01000
R420B	Sodium Hydroxide 0.1M (0.1N)	1 L	R420B01000
R420C	Sodium Hydroxide 0.25M (0.25N)	1 L	R420C01000
R420D	Sodium Hydroxide 0.2M (0.2N)	1 L	R420D01000
R420H	Sodium Hydroxide 0.5M (0.5N)	1 L	R420H01000
R420E	Sodium Hydroxide 1M (1N)	1 L	R420E01000
R420F	Sodium Hydroxide 2M (2N)	1 L	R420F01000
R420G	Sodium Hydroxide 4M (4N)	1 L	R420G01000
R430A	Sodium Nitrite 0.1M (0.2N)	1 L	R430A01000
R430B	Sodium Nitrite 0.2M (0.4N)	1 L	R430B01000
R430C	Sodium Nitrite 0.5M (1N)	1 L	R430C01000
R430D	Sodium Nitrite 1M (2N)	1 L	R430D01000
R430E	Sodium Nitrite 4M (8N)	1 L	R430E01000
R450A	Sodium Oxalate 0.05M (0.1N)	1 L	R450A01000
R460A	Sodium Thiocyanate 0.1M (0.1N)	1 L	R460A01000
R470A	Sodium Thiosulphate 0.01M (0.01N)	1 L	R470A01000

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Ready to use volumetric standard solution (contd.)

Product Code	Product Name	Packing	Packing Code
R470B	Sodium Thiosulphate 0.05M (0.05N)	1 L	R470B01000
R470C	Sodium Thiosulphate 0.1M (0.1N)	1 L	R470C01000
R470D	Sodium Thiosulphate 1M (1N)	1 L	R470D01000
R480A	Sulphuric Acid 0.05M (0.1N)	1 L	R480A01000
R480B	Sulphuric Acid 0.1M (0.2N)	1 L	R480B01000
R480C	Sulphuric Acid 0.25M (0.5N)	1 L	R480C01000
R480E	Sulphuric Acid 0.5M (1N)	1 L	R480E01000
R480D	Sulphuric Acid 1M (2N)	1 L	R480D01000
R480F	Sulphuric Acid 2.5M (5 N)	1 L	R480F01000
R480G	Sulphuric Acid 5M (10 N)	1 L	R480G01000
R490B	Zinc Chloride 0.5M(0.5N)	1 L	R490B01000
R490A	Zinc Chloride0.1M(0.1N)	1 L	R490A01000
R490C	Zinc Sulphate 0.05M (0.05N)	1 L	R490C01000
R490D	Zinc Sulphate 0.1M (0.1N)	1 L	R490D01000

Conductivity Standard

Conductivity measurements are used routinely in many industrial and environmental applications as a fast, inexpensive and reliable way of measuring the ionic content in a solution.

These conductivity standard solution are characterized by:

- Standards ranging from 5microsiemens/cm to 20,000microsiemens/cm
- Traceable to NIST standard reference materials
- Available in 500ml bottles in polyethylene or glass depending on compatibility
- Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, of 4 years.

Product Code	Product Name	Packing	Packing Code
E0001	5 Microsiemens/cm	500 ml	E000100500
E0002	10 Microsiemens/cm	500 ml	E000200500
E0003	15 Microsiemens/cm	500 ml	E000300500
E0004	20 Microsiemens/cm	500 ml	E000400500
E0006	29.4 Microsiemens/cm	500 ml	E000600500
E0007	50 Microsiemens/cm	500 ml	E000700500
E0009	80 Microsiemens/cm	500 ml	E000900500
E0011	100 Microsiemens/cm	500 ml	E001100500
E0012	147 Microsiemens/cm	500 ml	E001200500
E0013	200 Microsiemens/cm	500 ml	E001300500
E0016	500 Microsiemens/cm	500 ml	E001600500
E0023	1000 Microsiemens/cm	500 ml	E002300500
E0027	1413 Microsiemens/cm	500 ml	E002700500
E0030	2000 Microsiemens/cm	500 ml	E003000500
E0035	5000 Microsiemens/cm	500 ml	E003500500
E0037	10000 Microsiemens/cm	500 ml	E003700500
E0038	12880 Microsiemens/cm	500 ml	E003800500
E0039	15000 Microsiemens/cm	500 ml	E003900500
E0040	20000 Microsiemens/cm	500 ml	E004000500

Loba Chemie offers its clients the possibility of requesting quotes on and ordering custom-made inorganic standard blends. Just send your request to the e-mail address **info@lobachemie.com**.