



SCOPE OF ACCREDITATION TO ISO GUIDE 34:2000

High Purity Standards

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REFERENCE MATERIAL PRODUCER

Valid to: March 1, 2012

Certificate Number: AR - 1436

Category and Sub-Category of Reference Material	Class or Type of Reference Materials Produced	Methods or Techniques Utilized in the RMP Laboratory if appropriate
(CRM) • Chemical	1. Single Component Ion Chromatography Standard Solutions	IC and ICP-OES methods associated with gravimetric preparation

Cation	Concentration Range
Calcium	0.01 µg/mL to 10,000 µg/mL
Magnesium	0.01 µg/mL to 10,000 µg/mL
Potassium	0.01 µg/mL to 50,000 µg/mL
Sodium	0.01 µg/mL to 50,000 µg/mL
Anion	Concentration Range
Bromide	0.2 µg/mL to 10,000 µg/mL
Chloride	0.1 µg/mL to 50,000 µg/mL
Fluoride	0.1 µg/mL to 10,000 µg/mL
Nitrate	0.1 µg/mL to 20,000 µg/mL
Phosphate	0.5 µg/mL to 50,000 µg/mL
Sulfate	0.1 µg/mL to 50,000 µg/mL

Category and Sub-Category of Reference Material	Class or Type of Reference Materials Produced	Methods or Techniques Utilized in the RMP Laboratory if appropriate
(CRM) • Chemical	2. Single Component Inorganic Standard Solutions	ICP-OES and ICP-MS methods associated with gravimetric preparation

Element	Concentration Range	Element	Concentration Range
Al	0.01 µg/mL to 20,000 µg/mL	Nb	0.01 µg/mL to 10,000 µg/mL
Sb	0.01 µg/mL to 10,000 µg/mL	Nd	0.01 µg/mL to 10,000 µg/mL
As	0.01 µg/mL to 10,000 µg/mL	Ni	0.01 µg/mL to 50,000 µg/mL
Ba	0.01 µg/mL to 10,000 µg/mL	Pd	0.01 µg/mL to 10,000 µg/mL
Be	0.01 µg/mL to 10,000 µg/mL	P	0.1 µg/mL to 50,000 µg/mL
Bi	0.01 µg/mL to 10,000 µg/mL	Pt	0.01 µg/mL to 10,000 µg/mL
B	0.1 µg/mL to 10,000 µg/mL	K	0.01 µg/mL to 50,000 µg/mL
Cd	0.01 µg/mL to 50,000 µg/mL	Pr	0.01 µg/mL to 10,000 µg/mL
Ca	0.01 µg/mL to 50,000 µg/mL	Re	0.01 µg/mL to 10,000 µg/mL
Ce	0.01 µg/mL to 10,000 µg/mL	Rh	0.01 µg/mL to 10,000 µg/mL
Cs	0.01 µg/mL to 50,000 µg/mL	Sm	0.01 µg/mL to 10,000 µg/mL
Cr	0.01 µg/mL to 20,000 µg/mL	Sc	0.01 µg/mL to 10,000 µg/mL
Co	0.01 µg/mL to 20,000 µg/mL	Se	0.01 µg/mL to 10,000 µg/mL
Cu	0.01 µg/mL to 50,000 µg/mL	Si	0.1 µg/mL to 10,000 µg/mL
Dy	0.01 µg/mL to 10,000 µg/mL	Ag	0.01 µg/mL to 10,000 µg/mL
Er	0.01 µg/mL to 10,000 µg/mL	Na	0.01 µg/mL to 50,000 µg/mL
Eu	0.01 µg/mL to 10,000 µg/mL	Sr	0.01 µg/mL to 10,000 µg/mL
Gd	0.01 µg/mL to 10,000 µg/mL	S	0.1 µg/mL to 20,000 µg/mL
Ga	0.01 µg/mL to 10,000 µg/mL	Ta	0.01 µg/mL to 10,000 µg/mL
Ge	0.01 µg/mL to 10,000 µg/mL	Te	0.01 µg/mL to 10,000 µg/mL
Au	0.01 µg/mL to 10,000 µg/mL	Tb	0.01 µg/mL to 10,000 µg/mL
Hf	0.01 µg/mL to 10,000 µg/mL	Tl	0.01 µg/mL to 10,000 µg/mL
Ho	0.01 µg/mL to 10,000 µg/mL	Th	0.01 µg/mL to 10,000 µg/mL
In	0.01 µg/mL to 10,000 µg/mL	Sn	0.01 µg/mL to 10,000 µg/mL
Fe	0.01 µg/mL to 50,000 µg/mL	Ti	0.01 µg/mL to 10,000 µg/mL
La	0.01 µg/mL to 10,000 µg/mL	W	0.01 µg/mL to 10,000 µg/mL
Pb	0.01 µg/mL to 50,000 µg/mL	U	0.01 µg/mL to 10,000 µg/mL
Li	0.01 µg/mL to 50,000 µg/mL	V	0.01 µg/mL to 10,000 µg/mL
Lu	0.01 µg/mL to 10,000 µg/mL	Yb	0.01 µg/mL to 10,000 µg/mL
Mg	0.01 µg/mL to 50,000 µg/mL	Y	0.01 µg/mL to 20,000 µg/mL
Mn	0.01 µg/mL to 20,000 µg/mL	Zn	0.01 µg/mL to 50,000 µg/mL
Hg	0.01 µg/mL to 10,000 µg/mL	Zr	0.01 µg/mL to 10,000 µg/mL
Mo	0.01 µg/mL to 10,000 µg/mL		

Notes:

1. This scope is part of and must be included with the Certificate of Accreditation No. AR - 1436



Vice President