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Product Specification

Barium ICP Standard, 1000 ppm Ba in 3% HNO₃

Iridium (Ir)

Lanthanum (La)

Iron (Fe)

N/A

N/A

N/A

Lot Number: SAMPLE Product Number: PBA1KN

Manufacture Date: N/A Expiration Date: N/A

The certified value for this product is confirmed in independent testing by a second qualified chemist. The uncertainty associated with the certified value is \pm 0.5% relative, which is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.

The final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3104a. All trace level elements were determined by ICP or ICP-MS.

Name		CAS#		Grade	
Water		7732-18	8-5		
Nitric Acid		7697-3	7-2		
Barium Nitrate		10022-31-8			
	Ī		1		
Test		Spec	ification	Result	NIST SRM#
Appearance		Color	rless liquid	N/A	
Assay (vs. EDTA/Metalphthalein)		995-1005 ppm Ba		N/A	915
	η	Sana Flamanta be	r ICD on ICD - M	I=Spectral	Interference N=Not Tested
		Trace Elements by All values reporte		.b	
Aluminum (Al)	N/A	Lead (Pb)	N/A	Strontium (Sr)	N/A
Antimony (Sb)	N/A	Lithium (Li)	N/A	Sulfur (S)	N/A
Arsenic (As)	N/A	Lutetium (Lu)	N/A	Tantalum (Ta)	N/A
Beryllium (Be)	N/A	Magnesium (Mg)	N/A	Tellurium (Te)	N/A
Bismuth (Bi)	N/A	Manganese (Mn)	N/A	Terbium (Tb)	N/A
Boron (B)	N/A	Mercury (Hg)	N/A	Thallium (Tl)	N/A
Cadmium (Cd)	N/A	Molybdenum (Mo)	N/A	Thorium (Th)	N/A
Calcium (Ca)	N/A	Neodymium (Nd)	N/A	Thulium (Tm)	N/A
Cerium (Ce)	N/A	Nickel (Ni)	N/A	Tin (Sn)	N/A
Cesium (Cs)	N/A	Niobium (Nb)	N/A	Titanium (Ti)	N/A
Chromium (Cr)	N/A	Osmium (Os)	N/A	Tungsten (W)	N/A
Cobalt (Co)	N/A	Palladium (Pd)	N/A	Uranium (U)	N/A
Copper (Cu)	N/A	Phosphorus (P)	N/A	Vanadium (V)	N/A
Dysprosium (Dy)	N/A	Platinum (Pt)	N/A	Ytterbium (Yb)	N/A
Erbium (Er)	N/A	Potassium (K)	N/A	Yttrium (Y)	N/A
Europium (Eu)	N/A	Praseodymium (Pr) N/A	Zinc (Zn)	N/A
Gadolinium (Gd)	N/A	Rhenium (Re)	N/A	Zirconium (Zr)	N/A
Gallium (Ga)	N/A	Rhodium (Rh)	N/A		
Germanium (Ge)	N/A	Rubidium (Rb)	N/A		
Gold (Au)	N/A	Ruthenium (Ru)	N/A		
Hafnium (Hf)	N/A	Samarium (Sm)	N/A		
Holmium (Ho)	N/A	Scandium (Sc)	N/A		
Indium (In)	N/A	Selenium (Se)	N/A		

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N/A

N/A

N/A

Silicon (Si)

Silver (Ag)

Sodium (Na)

Specification	Reference
Barium ICP Standard 1 mL = 1 mg Ba (1 000 ppm Ba) Ba(NO3)2	EPA (200.7)

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
PBA1KN-100	100 mL natural LDPE	18 months
PBA1KN-500	500 mL natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

This document is designed to comply with ISO Guide 31 "Reference Materials $^{\rm --}$ Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

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