

Product Specification

Barium ICP Standard, 1000 ppm Ba in 3% HCl

Lot Number: SAMPLE

Product Number: PBA1KH

Manufacture Date: N/A

Expiration Date: N/A

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

Name	CAS#	Grade
Water	7732-18-5	
Hydrochloric Acid	7647-01-0	
Barium Carbonate	513-77-9	

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Assay (vs. EDTA/Metalphthalein)	995-1005 ppm Ba	N/A	915

Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

All values reported in mg/L (ppm)

Aluminum (Al)	N/A	Magnesium (Mg)	N/A	Thorium (Th)	N/A
Antimony (Sb)	N/A	Manganese (Mn)	N/A	Thulium (Tm)	N/A
Arsenic (As)	N/A	Mercury (Hg)	N/A	Tin (Sn)	N/A
Beryllium (Be)	N/A	Molybdenum (Mo)	N/A	Titanium (Ti)	N/A
Bismuth (Bi)	N/A	Neodymium (Nd)	N/A	Tungsten (W)	N/A
Boron (B)	N/A	Nickel (Ni)	N/A	Uranium (U)	N/A
Cadmium (Cd)	N/A	Niobium (Nb)	N/A	Vanadium (V)	N/A
Calcium (Ca)	N/A	Osmium (Os)	N/A	Ytterbium (Yb)	N/A
Cerium (Ce)	N/A	Palladium (Pd)	N/A	Yttrium (Y)	N/A
Cesium (Cs)	N/A	Phosphorus (P)	N/A	Zinc (Zn)	N/A
Chromium (Cr)	N/A	Platinum (Pt)	N/A	Zirconium (Zr)	N/A
Cobalt (Co)	N/A	Potassium (K)	N/A		
Copper (Cu)	N/A	Praseodymium (Pr)	N/A		
Dysprosium (Dy)	N/A	Rhenium (Re)	N/A		
Erbium (Er)	N/A	Rhodium (Rh)	N/A		
Europium (Eu)	N/A	Rubidium (Rb)	N/A		
Gadolinium (Gd)	N/A	Ruthenium (Ru)	N/A		
Gallium (Ga)	N/A	Samarium (Sm)	N/A		
Germanium (Ge)	N/A	Scandium (Sc)	N/A		
Gold (Au)	N/A	Selenium (Se)	N/A		
Hafnium (Hf)	N/A	Silicon (Si)	N/A		
Holmium (Ho)	N/A	Silver (Ag)	N/A		
Indium (In)	N/A	Sodium (Na)	N/A		
Iridium (Ir)	N/A	Strontium (Sr)	N/A		
Iron (Fe)	N/A	Sulfur (S)	N/A		
Lanthanum (La)	N/A	Tantalum (Ta)	N/A		
Lead (Pb)	N/A	Tellurium (Te)	N/A		
Lithium (Li)	N/A	Terbium (Tb)	N/A		
Lutetium (Lu)	N/A	Thallium (Tl)	N/A		

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)
PBA1KH-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 -- Contents of Certificates and Labels."

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