

Product Specification

Yttrium ICP Standard, 10,000 ppm Y in 5% HNO₃

Lot Number: SAMPLE

Product Number: PY10KN

Manufacture Date: N/A

Expiration Date: N/A

This is a single element solution that was prepared volumetrically to contain the certified value reported. The uncertainty associated with the certified value 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 3167a. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Yttrium Oxide	1314-36-9	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Yttrium (Y)	9950-10050 ppm	N/A	3167

Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

All values reported in mg/L (ppm)

Aluminum (Al)	N/A	Lanthanum (La)	N/A	Sodium (Na)	N/A
Antimony (Sb)	N/A	Lead (Pb)	N/A	Strontium (Sr)	N/A
Arsenic (As)	N/A	Lithium (Li)	N/A	Sulfur (S)	N/A
Barium (Ba)	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	Zinc (Zn)	N/A
Europium (Eu)	N/A	Praseodymium (Pr)	N/A	Zirconium (Zr)	N/A
Gadolinium (Gd)	N/A	Rhenium (Re)	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		
Iridium (Ir)	N/A	Silicon (Si)	N/A		
Iron (Fe)	N/A	Silver (Ag)	N/A		

Specification	Reference
Yttrium ICP Standard, 1 mL = 10 mg Y (10,000 ppm Y) Y ₂ O ₃ in 5% HNO ₃	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)
PY10KN-100	100 mL natural LDPE	18 months
PY10KN-500	500 mL natural poly	18 months

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

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