

Certificate of Analysis

PlasmaPURE

Nitric Acid (67 - 69% HNO₃)

Catalogue Number: **250-039-171 / 250-139-171 / 250-039-173 / 250-139-173 / 250-039-175**

Lot Number:

Assay (HNO₃ w/w): **69%**

Colour (APHA): **< 7 (Specification: Max 10)**

Expiry Date: **March 2022**

Opened Bottle Expiry Information

15 months after opening, up to unopened expiration date

_____ Date bottle opened

Analyte	Maximum Specification	Actual Value (in ppb)	Analyte	Maximum Specification	Actual Value (in ppb)
Aluminum (Al)	1 ppb	< 0.5	Neodymium (Nd)	0.1 ppb	< 0.1
Antimony (Sb)	0.5 ppb	< 0.1	Nickel (Ni)	0.5 ppb	< 0.2
Arsenic (As)	0.5 ppb	< 0.1	Niobium (Nb)	0.1 ppb	< 0.1
Barium (Ba)	0.1 ppb	< 0.1	Palladium (Pd)	0.5 ppb	< 0.1
Beryllium (Be)	0.1 ppb	< 0.1	Platinum (Pt)	0.5 ppb	< 0.1
Bismuth (Bi)	0.1 ppb	< 0.1	Potassium (K)	1 ppb	< 0.1
Boron (B)	1 ppb	< 1	Praseodymium (Pr)	0.1 ppb	< 0.1
Cadmium (Cd)	0.5 ppb	< 0.1	Rhenium (Re)	0.1 ppb	< 0.1
Calcium (Ca)	1 ppb	< 0.5	Rhodium (Rh)	0.5 ppb	< 0.1
Cerium (Ce)	0.1 ppb	< 0.1	Rubidium (Rb)	0.1 ppb	< 0.1
Cesium (Cs)	0.1 ppb	< 0.1	Ruthenium (Ru)	0.5 ppb	< 0.1
Chromium (Cr)	1 ppb	< 0.5	Samarium (Sm)	0.1 ppb	< 0.1
Cobalt (Co)	0.5 ppb	< 0.1	Scandium (Sc)	0.1 ppb	< 0.1
Copper (Cu)	0.5 ppb	< 0.1	Selenium (Se)	1 ppb	< 0.2
Dysprosium (Dy)	0.1 ppb	< 0.1	Silver (Ag)	0.1 ppb	< 0.1
Erbium (Er)	0.1 ppb	< 0.1	Sodium (Na)	1 ppb	< 0.5
Europium (Eu)	0.1 ppb	< 0.1	Strontium (Sr)	0.1 ppb	< 0.1
Gadolinium (Gd)	0.1 ppb	< 0.1	Tantalum (Ta)	Information Only	< 0.1
Gallium (Ga)	0.1 ppb	< 0.1	Tellurium (Te)	0.1 ppb	< 0.1
Germanium (Ge)	0.1 ppb	< 0.1	Terbium (Tb)	0.1 ppb	< 0.1
Gold (Au)	0.1 ppb	< 0.1	Thallium (Tl)	0.1 ppb	< 0.1
Hafnium (Hf)	0.1 ppb	< 0.1	Thorium (Th)	0.1 ppb	< 0.1
Holmium (Ho)	0.1 ppb	< 0.1	Thulium (Tm)	0.1 ppb	< 0.1
Indium (In)	0.1 ppb	< 0.1	Tin (Sn)	0.5 ppb	< 0.1
Iron (Fe)	1 ppb	< 0.5	Titanium (Ti)	0.5 ppb	< 0.1
Lanthanum (La)	0.1 ppb	< 0.1	Tungsten (W)	0.1 ppb	< 0.1
Lead (Pb)	0.1 ppb	< 0.1	Uranium (U)	0.1 ppb	< 0.1
Lithium (Li)	0.1 ppb	< 0.1	Vanadium (V)	0.5 ppb	< 0.1
Lutetium (Lu)	0.1 ppb	< 0.1	Ytterbium (Yb)	0.1 ppb	< 0.1
Magnesium (Mg)	1 ppb	< 0.2	Yttrium (Y)	0.1 ppb	< 0.1
Manganese (Mn)	0.1 ppb	< 0.1	Zinc (Zn)	0.5 ppb	< 0.5
Mercury (Hg)	0.1 ppb	< 0.02	Zirconium (Zr)	0.1 ppb	< 0.1
Molybdenum (Mo)	0.1 ppb	< 0.1			

Analyte	Maximum Specification	Actual Value (in ppm)	Analyte	Maximum Specification	Actual Value (in ppm)
Chloride (Cl ⁻)	0.2 ppm	< 0.2	Total Sulphur (S)	0.3 ppm	< 0.3
Total Phosphorus (P)	0.01 ppm	< 0.01			

Certified by:



Daniel Boisvert, Chemist

Certification Date: **March 03, 2020**

To maintain product integrity and reduce the risk of trace metal contamination: the inner pack of plastic bags and bottle should be opened under CLASS 100 particle conditions to maintain the integrity of the product. The use of safety apparel, as well as eye protection, plastic gloves, hair net and a clean room suit is also advised. The Safety Data Sheet and this Certificate of Analysis are available on our web site (Également disponible en français).

SCP SCIENCE is ISO 9001 registered and ISO 17025 / ISO 17034* accredited

(*This product is **not** accredited. See our Scope of Accreditation for an official list of accredited certified reference materials.)

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