

## PlasmaPURE

## Hydrochloric Acid (34 - 37% HCl)

Catalogue Number: **250-039-151 / 250-139-151 / 250-039-153 / 250-139-153 / 250-039-155**

Lot Number:  
 Assay (HCl w/w): **36%**  
 Colour (APHA): **< 7 (Specification: Max 10)**  
 Expiry Date: **January 2023**

**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	< 0.1
Arsenic (As)	0.5 ppb	< 0.1	Niobium (Nb)	0.1 ppb	< 0.1
Barium (Ba)	0.1 ppb	< 0.1	Palladium (Pd)	Information Only	< 0.5
Beryllium (Be)	0.1 ppb	< 0.1	Platinum (Pt)	Information Only	< 0.5
Bismuth (Bi)	0.1 ppb	< 0.1	Potassium (K)	1 ppb	< 0.1
Boron (B)	1 ppb	< 0.5	Praseodymium (Pr)	0.1 ppb	< 0.1
Cadmium (Cd)	0.1 ppb	< 0.1	Rhenium (Re)	0.1 ppb	< 0.1
Calcium (Ca)	1 ppb	< 0.5	Rhodium (Rh)	0.1 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)	0.1 ppb	< 0.1
Chromium (Cr)	0.5 ppb	< 0.1	Samarium (Sm)	0.1 ppb	< 0.1
Cobalt (Co)	0.1 ppb	< 0.1	Scandium (Sc)	0.1 ppb	< 0.1
Copper (Cu)	0.5 ppb	< 0.2	Selenium (Se)	1 ppb	< 0.2
Dysprosium (Dy)	0.1 ppb	< 0.1	Silver (Ag)	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	< 1
Gallium (Ga)	0.1 ppb	< 0.1	Tellurium (Te)	0.1 ppb	< 0.1
Gold (Au)	0.5 ppb	< 0.1	Terbium (Tb)	0.1 ppb	< 0.1
Hafnium (Hf)	0.1 ppb	< 0.1	Thallium (Tl)	0.1 ppb	< 0.1
Holmium (Ho)	0.1 ppb	< 0.1	Thorium (Th)	0.1 ppb	< 0.1
Indium (In)	0.1 ppb	< 0.1	Thulium (Tm)	0.1 ppb	< 0.1
Iron (Fe)	1 ppb	< 0.5	Tin (Sn)	0.5 ppb	< 0.1
Lanthanum (La)	0.1 ppb	< 0.1	Titanium (Ti)	0.5 ppb	< 0.1
Lead (Pb)	0.1 ppb	< 0.1	Tungsten (W)	0.1 ppb	< 0.1
Lithium (Li)	0.1 ppb	< 0.1	Uranium (U)	0.1 ppb	< 0.1
Lutetium (Lu)	0.1 ppb	< 0.1	Vanadium (V)	0.5 ppb	< 0.1
Magnesium (Mg)	0.5 ppb	< 0.5	Ytterbium (Yb)	0.1 ppb	< 0.1
Manganese (Mn)	0.1 ppb	< 0.1	Yttrium (Y)	0.1 ppb	< 0.1
Mercury (Hg)	0.1 ppb	< 0.02	Zinc (Zn)	1 ppb	< 0.5
Molybdenum (Mo)	0.1 ppb	< 0.1	Zirconium (Zr)	0.1 ppb	< 0.1

Analyte	Maximum Specification	Actual Value (in ppm)	Analyte	Maximum Specification	Actual Value (in ppm)
Bromide (Br <sup>-</sup> )	10 ppm	< 10	Total Sulphur (S)	0.3 ppm	< 0.3
Total Phosphorus (P)	0.01 ppm	< 0.01	Free Chlorine (Cl <sub>2</sub> )	0.5 ppm	< 0.5

Certified by:   
 Daniel Boisvert, Chemist

Certification Date: **January 21, 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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