



Technical Application Bulletin

VALIDATION OF NANOPURE® DIAMOND™ UV WATER TRACE METALS, ANION AND CATIONS

TABLE 3 Trace Metals by ICP-MS

Element	Results (ppb)	Element	Result (ppb)
Aluminum (Al)	<0.003	Neodymium (Nd)	<0.001
Antimony (Sb)	<0.002	Nickel (Ni)	<0.004
Arsenic (As)	<0.005	Niobium (Nb)	<0.001
Barium (Ba)	<0.001	Osmium (Os)	<0.002
Beryllium (Be)	<0.003	Palladium (Pd)	<0.002
Bismuth (Bi)	<0.001	Platinum (Pt)	<0.009
Boron (B)	<0.05	Potassium (K)	<0.1
Cadmium (Cd)	<0.003	Praseodymium (Pr)	<0.001
Calcium (Ca)	<0.2	Rhenium (Re)	<0.003
Cerium (Ce)	<0.001	Rhodium (Rh)	<0.001
Cesium (Cs)	<0.001	Rubidium (Rb)	<0.001
Chromium (Cr)	<0.004	Ruthenium (Ru)	<0.002
Cobalt (Co)	<0.001	Samarium (Sm)	<0.002
Copper (Cu)	<0.003	Scandium (Sc)	<0.01
Dysprosium (Dy)	<0.001	Selenium (Se)	<0.02
Erbium (Er)	<0.001	Silicon (Si)*	<0.5
Europium (Eu)	<0.001	Silver (Ag)	<0.001
Gadolinium (Gd)	<0.001	Sodium (Na)	<0.007
Gallium (Ga)	<0.002	Strontium (Sr)	<0.001
Germanium (Ge)	<0.003	Tantalum (Ta)	<0.004
Gold (Au)	<0.006	Tellurium (Te)	<0.005
Hafnium (Hf)	<0.001	Terbium (Tb)	<0.001
Holmium (Ho)	<0.001	Thallium (Tl)	<0.006
Indium (In)	<0.001	Thorium (Th)	<0.003
Iridium (Ir)	<0.002	Thulium (Tm)	<0.001
Iron (Fe)	<0.02	Tin (Sn)	<0.005
Lanthanum (La)	<0.001	Titanium (Ti)	<0.002
Lead (Pb)	<0.003	Tungsten (W)	<0.005
Lithium (Li)	<0.002	Uranium (U)	<0.002
Lutetium (Lu)	<0.001	Vanadium (V)	<0.003
Magnesium (Mg)	<0.002	Ytterbium (Yb)	<0.001
Manganese (Mn)	<0.002	Yttrium (Y)	<0.001
Mercury (Hg)	<0.02	Zinc (Zn)	<0.005
Molybdenum (Mo)	<0.004	Zirconium (Zr)	<0.005

*Silicon analyzed using colorimetry
Results reported as < Limit of Detection