



Trace analysis arium® comfort

	Detection threshold	Unit	Calculated concentration arium® comfort	Procedure	
Elements	Aluminum Al	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Antimony Sb	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Arsenic As	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Barium Ba	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Beryllium Be	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Bismuth Bi	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Boron B	0.01	µg/L (ppb)	Under detection threshold	ICP-MS
	Bromide Br ⁻	0.005	µg/L (ppb)	Under detection threshold	IC
	Cadmium Cd	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Chloride Cl ⁻	0.005	µg/L (ppb)	Under detection threshold	IC
	Cesium Cs	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Cerium Ce	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Chromium Cr	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Cobalt Co	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Copper Cu	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Dysprosium Dy	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Erbium Er	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Europium Eu	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Fluoride F ⁻	0.003	µg/L (ppb)	Under detection threshold	IC
	Gadolinium Gd	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Gallium Ga	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Germanium Ge	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Gold Au	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Hafnium Hf	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Holmium Ho	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Indium In	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Iridium Ir	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Iron Fe	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Lanthanum La	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Lead Pb	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Lithium Li	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Lutetium Lu	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Magnesium Mg	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Manganese Mn	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Mercury Hg	0.005	µg/L (ppb)	Under detection threshold	ICP-MS
	Molybdenum Mo	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Neodymium Nd	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Nickel Ni	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Niobium Nb	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Osmium Os	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Palladium Pd	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
Platinum Pt	0.002	µg/L (ppb)	Under detection threshold	ICP-MS	
Potassium K	0.001	µg/L (ppb)	Under detection threshold	ICP-MS	
Praseodymium Pr	0.001	µg/L (ppb)	Under detection threshold	ICP-MS	

Execution and Analysis Procedure

The purified water analysis was executed by ATU GmbH, Analytics for Technology and Environment of the arium® comfort. ATU GmbH is an internationally recognized testing laboratory for the analysis of purified water. The following procedures were used for the analysis: "IC" (Dionex), "GF-AAS" (Dionex, Perkin Elmer), "ICP-MS 7500 cs" (Agilent) and "GC-MS."

	Detection threshold	Unit	Calculated concentration arium® comfort	Procedure	
Elements	Rhenium Re	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Rhodium Rh	0.002	µg/L (ppb)	Under detection threshold	ICP-MS
	Rubidium Rb	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Ruthenium Ru	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Samarium Sm	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Scandium Sc	0.002	µg/L (ppb)	Under detection threshold	ICP-MS
	Selenium Se	0.01	µg/L (ppb)	Under detection threshold	ICP-MS
	Silver Ag	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Sodium Na	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Strontium Sr	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
	Tantalum Ta	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Tellurium Te	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Terbium Tb	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Thallium Tl	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Thorium Th	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Thulium Tm	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Tin Sn	0.002	µg/L (ppb)	Under detection threshold	ICP-MS
	Titanium Ti	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Tungsten W	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Uranium U	0.001	µg/L (ppb)	Under detection threshold	ICP-MS
	Vanadium V	0.0005	µg/L (ppb)	Under detection threshold	ICP-MS
Ytterbium Yb	0.001	µg/L (ppb)	Under detection threshold	ICP-MS	
Yttrium Y	0.001	µg/L (ppb)	Under detection threshold	ICP-MS	
Zirconium Zr	0.002	µg/L (ppb)	Under detection threshold	ICP-MS	
Si	Silicon	0.2	µg/L (ppb)	Under detection threshold	GF-AAS
Anorganic Compounds	Ammonium NH ₄ ⁺	0.005	µg/L (ppb)	Under detection threshold	IC
	Trimethylamine TMA	0.005	µg/L (ppb)	Under detection threshold	IC
	Nitrite NO ₂ ⁻	0.005	µg/L (ppb)	Under detection threshold	IC
	Nitrate NO ₃ ⁻	0.005	µg/L (ppb)	Under detection threshold	IC
	Phosphate PO ₄ ³⁻	0.01	µg/L (ppb)	Under detection threshold	IC
	Sulfate SO ₄ ²⁻	0.01	µg/L (ppb)	Under detection threshold	IC
Highly volatile org. Compounds (VOC)	1,1,2-Trichloroethane	1	µg/L (ppb)	Under detection threshold	GC-MS
	Trichloroethene	1	µg/L (ppb)	Under detection threshold	GC-MS
	Tetrachloroethene	1	µg/L (ppb)	Under detection threshold	GC-MS
	Tetrachloromethane	1	µg/L (ppb)	Under detection threshold	GC-MS
	1,2-Dichloroethane	1	µg/L (ppb)	Under detection threshold	GC-MS
	1,1-Dichloroethene	1	µg/L (ppb)	Under detection threshold	GC-MS
	1,2-cis-Dichloroethene	1	µg/L (ppb)	Under detection threshold	GC-MS
	Chloroform	1	µg/L (ppb)	Under detection threshold	GC-MS
	Dichlorobromomethane	1	µg/L (ppb)	Under detection threshold	GC-MS
	Dibromochloromethane	1	µg/L (ppb)	Under detection threshold	GC-MS
	Tribromomethane	1	µg/L (ppb)	Under detection threshold	GC-MS
Vinyl chloride	1	µg/L (ppb)	Under detection threshold	GC-MS	

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