

CERTIFICATE OF ANALYSIS

Product : Hydrofluoric Acid ANALPURE® *ULTRA*
 Code : UAc0091
 Batch number : 5222012
 Expiry date : 15/12/2025 (dd/mm/yyyy)

Assay : 49 % (w/w)
 Total Sulphur : < 50 ppb (ng/g)
 Trace impurities (ppt) (pg/g)

Analyte	Maximum concentration	Actual value	Analyte	Maximum concentration	Actual value
Aluminium	20	< 2	Neodymium	1	< 0.01
Antimony	20	< 0.05	Nickel	20	< 2
Arsenic	50	< 20	Niobium	10	< 0.1
Barium	10	< 0.1	Palladium	20	< 1
Beryllium	10	< 0.05	Platinum	20	< 1
Bismuth	10	< 0.01	Potassium	10	< 1
Boron	100	< 1	Praseodymium	1	< 0.01
Cadmium	10	< 0.05	Rhenium	10	< 0.02
Calcium	10	< 10	Rhodium	20	< 0.05
Cerium	10	< 0.02	Rubidium	20	< 0.01
Cesium	10	< 0.02	Ruthenium	20	< 0.01
Chromium	10	< 0.5	Samarium	1	< 0.01
Cobalt	10	< 0.1	Scandium	10	< 0.1
Copper	10	< 0.5	Selenium	Information only	< 1
Dysprosium	1	< 0.01	Silver	10	< 0.02
Erbium	1	< 0.01	Sodium	10	< 1
Europium	1	< 0.01	Strontium	10	< 0.05
Gadolinium	1	< 0.01	Tantalum	Information only	< 0.05
Gallium	10	< 0.1	Tellurium	1	< 0.05
Germanium	10	< 0.1	Terbium	1	< 0.01
Gold	20	< 2	Thallium	10	< 0.01
Hafnium	10	< 0.01	Thorium	1	< 0.01
Holmium	1	< 0.01	Thulium	1	< 0.01
Indium	1	< 0.01	Tin	20	< 2
Iron	10	< 1	Titanium	20	< 2
Lanthanum	10	< 0.01	Tungsten	20	< 10
Lead	10	< 0.2	Uranium	1	< 0.01
Lithium	10	< 0.05	Vanadium	10	< 0.05
Lutetium	1	< 0.01	Ytterbium	1	< 0.01
Magnesium	10	< 0.5	Yttrium	1	< 0.01
Manganese	10	< 0.05	Zinc	10	< 1
Mercury	50	< 20	Zirconium	10	< 0.1
Molybdenum	10	< 0.2			



Release date: **15. 12. 2022 (dd/mm/yyyy)**

Person-in-Charge:

Vladimír Patera