

CERTIFICATE OF ANALYSIS

Product : Hydrofluoric Acid ANALPURE® *ULTRA*
 Code : UAc0091
 Batch number : 5219041
 Expiry date : 04/09/2023 (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	< 1	Nickel	20	< 10
Arsenic	50	< 20	Niobium	10	< 0.05
Barium	10	< 0.05	Palladium	20	< 5
Beryllium	10	< 0.1	Platinum	20	< 1
Bismuth	10	< 0.01	Potassium	10	< 1
Boron	100	< 2	Praseodymium	1	< 0.01
Cadmium	10	< 0.1	Rhenium	10	< 0.1
Calcium	10	< 10	Rhodium	20	< 0.5
Cerium	10	< 0.02	Rubidium	20	< 0.01
Cesium	10	< 0.02	Ruthenium	20	< 0.5
Chromium	10	< 1	Samarium	1	< 0.01
Cobalt	10	< 0.1	Scandium	10	< 0.1
Copper	10	< 1	Selenium	Information only	< 1
Dysprosium	1	< 0.01	Silver	10	< 0.02
Erbium	1	< 0.02	Sodium	10	< 2
Europium	1	< 0.01	Strontium	10	< 0.02
Gadolinium	1	< 0.01	Tantalum	Information only	< 0.05
Gallium	10	< 1	Tellurium	1	< 0.5
Germanium	10	< 0.1	Terbium	1	< 0.01
Gold	20	< 1	Thallium	10	< 0.2
Hafnium	10	< 0.02	Thorium	1	< 0.2
Holmium	1	< 0.02	Thulium	1	< 0.02
Indium	1	< 0.2	Tin	20	< 2
Iron	10	< 5	Titanium	20	< 10
Lanthanum	10	< 0.02	Tungsten	20	< 10
Lead	10	< 0.1	Uranium	1	< 0.02
Lithium	10	< 0.05	Vanadium	10	< 0.5
Lutetium	1	< 0.02	Ytterbium	1	< 0.02
Magnesium	10	< 0.5	Yttrium	1	< 0.05
Manganese	10	< 0.05	Zinc	10	< 0.5
Mercury	50	< 20	Zirconium	10	< 0.2
Molybdenum	10	< 2			



Release date: **04. 09. 2020**

Person-in-Charge: **Vladimír Patera**