ANALYSIS REPORT

Semi-quantitative screening analysis by ICP

Issued by:	ALS Scandinavia Luleå, Aurorum 10, SE-977 75 LULEÅ, Sweden
Client:	Tos Lab AS
Date of receipt:	2025-04-02
Date of analysis:	2025-04-16
Order number(our):	NO2508050
Your reference:	Liv Nesset
Our reference:	Filip Wuotila
Sample name:	1645-2 Mest synlig flekk
Sample description:	
Lab number(our)	NO2508050-002

Aluminum, Al	2000	mg/kg	Nickel, Ni	1.3	mg/kg
Antimony, Sb	0.23	mg/kg	Niobium, Nb	0.013	mg/kg
Arsenic, As	0.039	mg/kg	Osmium, Os	< 0.005	mg/kg
Barium, Ba	16	mg/kg	Palladium, Pd	0.077	mg/kg
Beryllium, Be	0.017	mg/kg	Phosphorus, P	250	mg/kg
Bismuth, Bi	1.4	mg/kg	Platinum, Pt	< 0.02	mg/kg
Boron, B	0.49	mg/kg	Potassium, K	46	mg/kg
Bromine, Br	< 0.5	mg/kg	Praseodymium, Pr	0.085	mg/kg
Cadmium, Cd	0.055	mg/kg	Rhenium, Re	< 0.005	mg/kg
Calcium, Ca	16000	mg/kg	Rhodium, Rh	< 0.005	mg/kg
Cerium, Ce	0.65	mg/kg	Rubidium, Rb	0.14	mg/kg
Cesium, Cs	0.0094	mg/kg	Ruthenium, Ru	< 0.005	mg/kg
Chromium, Cr	0.83	mg/kg	Samarium, Sm	0.10	mg/kg
Cobalt, Co	0.42	mg/kg	Scandium, Sc	0.33	mg/kg
Copper, Cu	1.3	mg/kg	Selenium, Se	< 0.02	mg/kg
Dysprosium, Dy	0.10	mg/kg	Silicon, Si	4500	mg/kg
Erbium, Er	0.039	mg/kg	Silver, Ag	0.34	mg/kg
Europium, Eu	0.028	mg/kg	Sodium, Na	220	mg/kg
Gadolinium, Gd	0.16	mg/kg	Strontium, Sr	160	mg/kg
Gallium, Ga	0.36	mg/kg	Sulfur, S	250	mg/kg
Germanium, Ge	< 0.01	mg/kg	Tantalum, Ta	< 0.005	mg/kg
Gold, Au	0.10	mg/kg	Tellurium, Te	< 0.01	mg/kg
Hafnium, Hf	6.2	mg/kg	Terbium, Tb	0.021	mg/kg
Holmium, Ho	0.018	mg/kg	Thallium, Tl	< 0.005	mg/kg
Iodine, I	< 2	mg/kg	Thorium, Th	0.026	mg/kg
Iridium, Ir	< 0.01	mg/kg	Thulium, Tm	< 0.005	mg/kg
Iron, Fe	91	mg/kg	Tin, Sn	1.4	mg/kg
Lanthanum, La	0.35	mg/kg	Titanium, Ti	8.9	mg/kg
Lead, Pb	3.4	mg/kg	Tungsten, W	0.015	mg/kg
Lithium, Li	0.24	mg/kg	Uranium, U	0.012	mg/kg
Lutetium, Lu	< 0.005	mg/kg	Vanadium, V	0.16	mg/kg
Magnesium, Mg	1100	mg/kg	Ytterbium, Yb	0.022	mg/kg
Manganese, Mn	120	mg/kg	Yttrium, Y	0.66	mg/kg
Mercury, Hg	< 0.005	mg/kg	Zinc, Zn	76	mg/kg
Molybdenum, Mo	< 0.02	mg/kg	Zirconium, Zr	250	mg/kg
Neodymium, Nd	0.42	mg/kg			

Comments

The analysis is carried out by ICP-SMS (HR-ICP-MS).
The trace elements are determined using 18 scans over the mass range, resulting in a total measurement time of 300 s.
All concentrations are within ± 50% of the reported value. This may not apply to Br and I.
Elements marked with '<' are below the detection limit.
Elements marked with *** were not detectable.
Elements marked with ----- are not measured.

Report authorized by: Filip Wuotila

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Client:	Tos Lab AS
Date of receipt:	2025-04-02
Date of analysis:	2025-04-16
Order number(our):	NO2508050
Your reference:	Liv Nesset
Our reference:	Filip Wuotila
Sample name:	1645-2 Den reneste flekken
Sample description:	
Lab number(our)	NO2508050-003

Aluminum, Al	2000 mg/kg	Nickel, Ni	1.8 mg/kg
Antimony, Sb	0.37 mg/kg	Niobium, Nb	0.015 mg/kg
Arsenic, As	0.040 mg/kg	Osmium, Os	< 0.005 mg/kg
Barium, Ba	15 mg/kg	Palladium, Pd	0.066 mg/kg
Beryllium, Be	0.018 mg/kg	Phosphorus, P	350 mg/kg
Bismuth, Bi	1.3 mg/kg	Platinum, Pt	< 0.02 mg/kg
Boron, B	0.63 mg/kg	Potassium, K	59 mg/kg
Bromine, Br	< 0.5 mg/kg	Praseodymium, Pr	0.084 mg/kg
Cadmium, Cd	0.044 mg/kg	Rhenium, Re	< 0.005 mg/kg
Calcium, Ca	15000 mg/kg	Rhodium, Rh	< 0.005 mg/kg
Cerium, Ce	0.68 mg/kg	Rubidium, Rb	0.16 mg/kg
Cesium, Cs	0.013 mg/kg	Ruthenium, Ru	< 0.005 mg/kg
Chromium, Cr	0.87 mg/kg	Samarium, Sm	0.11 mg/kg
Cobalt, Co	0.40 mg/kg	Scandium, Sc	0.28 mg/kg
Copper, Cu	1.3 mg/kg	Selenium, Se	< 0.02 mg/kg
Dysprosium, Dy	0.10 mg/kg	Silicon, Si	4500 mg/kg
Erbium, Er	0.038 mg/kg	Silver, Ag	0.29 mg/kg
Europium, Eu	0.027 mg/kg	Sodium, Na	210 mg/kg
Gadolinium, Gd	0.15 mg/kg	Strontium, Sr	150 mg/kg
Gallium, Ga	0.38 mg/kg	Sulfur, S	260 mg/kg
Germanium, Ge	< 0.01 mg/kg	Tantalum, Ta	< 0.005 mg/kg
Gold, Au	0.12 mg/kg	Tellurium, Te	< 0.01 mg/kg
Hafnium, Hf	5.7 mg/kg	Terbium, Tb	0.019 mg/kg
Holmium, Ho	0.017 mg/kg	Thallium, Tl	< 0.005 mg/kg
Iodine, I	< 2 mg/kg	Thorium, Th	0.030 mg/kg
Iridium, Ir	< 0.01 mg/kg	Thulium, Tm	< 0.005 mg/kg
Iron, Fe	110 mg/kg	Tin, Sn	1.3 mg/kg
Lanthanum, La	0.38 mg/kg	Titanium, Ti	13 mg/kg
Lead, Pb	2.8 mg/kg	Tungsten, W	0.017 mg/kg
Lithium, Li	0.30 mg/kg	Uranium, U	0.0096 mg/kg
Lutetium, Lu	< 0.005 mg/kg	Vanadium, V	0.17 mg/kg
Magnesium, Mg	1100 mg/kg	Ytterbium, Yb	0.021 mg/kg
Manganese, Mn	100 mg/kg	Yttrium, Y	0.65 mg/kg
Mercury, Hg	< 0.005 mg/kg	Zinc, Zn	67 mg/kg
Molybdenum, Mo	< 0.02 mg/kg	Zirconium, Zr	240 mg/kg
Neodymium, Nd	0.41 mg/kg		

Comments

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