



# Certificate of Analysis

1.00456.2500 Nitric acid 65% for analysis EMSURE® Reag. Ph Eur,ISO  
Batch K54043656

	Spec. Values		Batch Values	
Assay (alkalimetric)	≥ 65.0	%	65.6	%
Identity	passes test		passes test	
Appearance	passes test		passes test	
Color (Hazen)	≤ 10	Hazen	4	Hazen
Density (d 20/20)	1.384 - 1.416		1.396	
Chloride (Cl)	≤ 0.2	ppm	< 0.2	ppm
Phosphate (PO <sub>4</sub> )	≤ 0.2	ppm	< 0.1	ppm
Sulfate (SO <sub>4</sub> )	≤ 0.5	ppm	< 0.5	ppm
Heavy metals (as Pb)	≤ 0.2	ppm	< 0.1	ppm
Ag (Silver)	≤ 0.010	ppm	< 0.005	ppm
Al (Aluminium)	≤ 0.050	ppm	< 0.010	ppm
As (Arsenic)	≤ 0.010	ppm	< 0.002	ppm
Au (Gold)	≤ 0.050	ppm	< 0.005	ppm
Ba (Barium)	≤ 0.010	ppm	< 0.005	ppm
Be (Beryllium)	≤ 0.010	ppm	< 0.005	ppm
Bi (Bismuth)	≤ 0.020	ppm	< 0.010	ppm
Ca (Calcium)	≤ 0.100	ppm	< 0.050	ppm
Cd (Cadmium)	≤ 0.010	ppm	< 0.005	ppm
Co (Cobalt)	≤ 0.010	ppm	< 0.005	ppm
Cr (Chromium)	≤ 0.020	ppm	< 0.005	ppm
Cu (Copper)	≤ 0.010	ppm	< 0.005	ppm
Fe (Iron)	≤ 0.100	ppm	< 0.020	ppm
Ga (Gallium)	≤ 0.050	ppm	< 0.010	ppm
Ge (Germanium)	≤ 0.020	ppm	< 0.010	ppm
In (Indium)	≤ 0.020	ppm	< 0.010	ppm
K (Potassium)	≤ 0.100	ppm	< 0.010	ppm
Li (Lithium)	≤ 0.010	ppm	< 0.010	ppm
Mg (Magnesium)	≤ 0.050	ppm	< 0.010	ppm
Mn (Manganese)	≤ 0.010	ppm	< 0.005	ppm
Mo (Molybdenum)	≤ 0.010	ppm	< 0.005	ppm
Na (Sodium)	≤ 0.200	ppm	< 0.200	ppm
Ni (Nickel)	≤ 0.020	ppm	< 0.010	ppm
Pb (Lead)	≤ 0.010	ppm	< 0.010	ppm
Pt (Platinum)	≤ 0.100	ppm	< 0.010	ppm
Sr (Strontium)	≤ 0.010	ppm	< 0.010	ppm
Ti (Titanium)	≤ 0.020	ppm	< 0.010	ppm
Tl (Thallium)	≤ 0.020	ppm	< 0.020	ppm
V (Vanadium)	≤ 0.010	ppm	< 0.010	ppm
Zn (Zinc)	≤ 0.020	ppm	< 0.010	ppm
Zr (Zirconium)	≤ 0.020	ppm	< 0.020	ppm
Residue on ignition (as SO <sub>4</sub> )	≤ 3	ppm	< 3	ppm
Tested by the dithizone	passes test		passes test	

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Date of expiry: see product label  
ISO-reagent

Date of release (DD.MM.YYYY) 18.01.2022

Dr. Nina Hegmann

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Responsible laboratory manager quality control

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