



Certificate of Analysis

1.00468.0100 L(+)-Ascorbic Acid for analysis EMSURE® ACS, Reag. Ph Eur
Batch K55229468

	Spec. Values		Batch Values	
Assay (iodometric)	99.0 - 100.5	%	99.4	%
Identity (IR-spectrum)	conforms		conforms	
Appearance	white or almost white, crystalline powder		white or almost white, crystalline powder	
Appearance of solution (50 g/l CO ₂ -free water)	clear (≤ 3 NTU) and not so intense in colour than reference solution BY ₇		clear (≤ 3 NTU) and not so intense in colour than reference solution BY ₇	
pH (50 g/l CO ₂ -free water)	2.1 - 2.6		2.3	
Spec. rotation [α] _D ²⁰ (100 g/l, water)	+20.5 - +21.5	°	+20.9	°
Chloride (Cl)	≤ 50	ppm	≤ 50	ppm
Sulfate (SO ₄)	≤ 20	ppm	≤ 20	ppm
Cu (Copper)	≤ 5	ppm	≤ 5	ppm
Fe (Iron)	≤ 2	ppm	≤ 2	ppm
Heavy metals (ACS)	≤ 10	ppm	≤ 10	ppm
Oxalic acid	≤ 0.2	%	≤ 0.2	%
Related substances (HPLC) (Impurity C)	≤ 0.15	%	0.03	%
Related substances (HPLC) (Impurity D)	≤ 0.15	%	< 0.01	%
Related substances (HPLC) (unspecified impurities singly)	≤ 0.10	%	< 0.05	%
Related substances (HPLC) (sum of impurities (except impurity C and D))	≤ 0.2	%	< 0.1	%
Sulfated ash (600 °C)	≤ 0.05	%	≤ 0.05	%
Loss on Drying (105 °C)	≤ 0.1	%	< 0.1	%

Date of release (DD.MM.YYYY) 09.05.2023
Minimum shelf life (DD.MM.YYYY) 31.05.2025

Dr. Sebastian Lips
Responsible laboratory manager quality control

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