

CERTIFICATE OF ANALYSIS

Product : **L-ASCORBIC ACID**
 Product number : A0602
 Batch number : 013739
 Date of production : xx-12-2017
 Date of analysis : 20-12-2017
 Date of expiry : 31-12-2022

Storage conditions : in a well-closed, non-metal container, protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	(almost) white crystalline powder or colourless crystals	complies		
Identification	conform	complies		
pH	2.1 – 2.6	2.36		5% in H ₂ O
Melting point	about 190	190.8	°C	
Appearance of solution	clear and colour ≤ ref. sol. BY ₇	complies		5% in H ₂ O
Specific optical rotation	+20.5 – +21.5	+21.22	°	10% in H ₂ O
Oxalic acid	≤ 0.2	< 0.2	%	
Copper	≤ 5	< 5	ppm	
Iron	≤ 2	< 2	ppm	
Lead	≤ 3	< 3	ppm	
Heavy metals	≤ 10	< 5	ppm	
Arsenic	≤ 1	< 1	ppm	
Mercury	≤ 0.1	< 0.1	mg/kg	
Loss on drying	≤ 0.4	< 0.4	%	
Sulphated ash	≤ 0.1	< 0.1	%	
Residual solvents	conform	complies		
Assay	99.0 – 100.5	99.86	%	

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by: *p/o*

drs. M. van Wissen, pharmacist
 Department of Quality Control Duchefa B.V.

Date: 03-05-2018

S. de Brae
 s. de Brae

The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.