

## CERTIFICATE OF ANALYSIS

Product : **L-ASCORBIC ACID**  
 Product number : A0602  
 Batch number : 014797  
 Date of production : 01-03-2019  
 Date of expiry : 31-03-2024

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	2.32		5% in H <sub>2</sub> O
Melting point	about 190	190.7	°C	
Appearance of solution	clear and colour ≤ ref. sol. BY <sub>7</sub>	complies		5% in H <sub>2</sub> O
Specific optical rotation	+20.5 – +21.5	+21.16	°	10% in H <sub>2</sub> O
Oxalic acid	≤ 0.2	< 0.2	%	
Copper	≤ 5	< 5	ppm	
Iron	≤ 2	< 2	mg/kg	
Lead	≤ 3	< 3	ppm	
Heavy metals	≤ 10	< 10	ppm	
Arsenic	≤ 3	< 3	ppm	
Mercury	≤ 0.1	< 0.1	mg/kg	
Loss on drying	≤ 0.4	< 0.4	%	
Sulphated ash	≤ 0.1	< 0.1	%	
Assay	99.0 – 100.5	99.75	%	

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

Conclusion: approved

Released by:



drs. J. van der Eem, pharmacist  
 Department of Quality Control Duchefa B.V.

Date: 23-08-2019

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