

## CERTIFICATE OF ANALYSIS

Product : **L-CYSTEINE HYDROCHLORIDE MONOHYDRATE**  
 Product number : C0706  
 Batch number : 017212  
 Date of production : 31-08-2021  
 Date of expiry : 31-08-2024

Packaging and storage : in a well-closed container

	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>UNITS</b>	<b>REMARKS</b>
Appearance	white or almost white crystalline powder or colourless crystals	complies		
Solubility	soluble in water	complies		
Identification	conform	complies		
Specific rotation	+6.0 – +7.1	+6.8	°	
Appearance of solution	clear and colourless	complies		
Related substances	conform	complies		
Chloride	19.89 – 20.29	20.13	%	
Sulphates	≤ 0.020	< 0.020	%	
Iron	≤ 10	< 10	ppm	
Loss on drying	8.50 – 12.00	10.00	%	
Sulphated ash	≤ 0.10	0.01	%	
Assay	98.5 – 101.0	100.1	%	

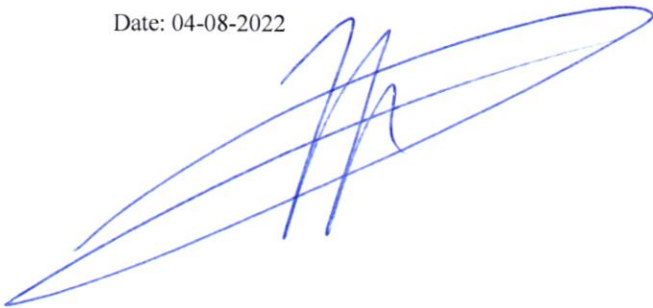
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

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

Date: 04-08-2022



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

Duchefa Biochemie B.V.