

## CERTIFICATE OF ANALYSIS

Product : **L-PROLINE**  
 Product number : P0717  
 Batch number : 017556  
 Date of production : 29-01-2023  
 Date of analysis : 29-01-2023  
 Date of expiry : 31-01-2026

Packaging and storage : store in a well-closed container at room temperature

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline powder or colourless crystals	complies		
Solubility	soluble in water	complies		
Identification:				
- A (specific optical rotation)	conform	complies		
- B (IR-spectrum)	conform	complies		
Appearance of solution	clear and colourless	complies		
Specific optical rotation	-86.0 – -84.0	-85.6	°	
Ninhydrin positive substances	≤ 0.5	0.0	%	
Chloride	≤ 200	complies	ppm	
Sulfate	≤ 300	≤ 200	ppm	
Ammonium	≤ 200	complies	ppm	
Iron	≤ 10	complies	ppm	
Heavy metals	≤ 5	complies	ppm	as Pb
Loss on drying	≤ 0.5	0.14	%	
Sulfated ash	≤ 0.1	0.0	%	
Assay	98.5 – 101.0	99.8	%	dried substance

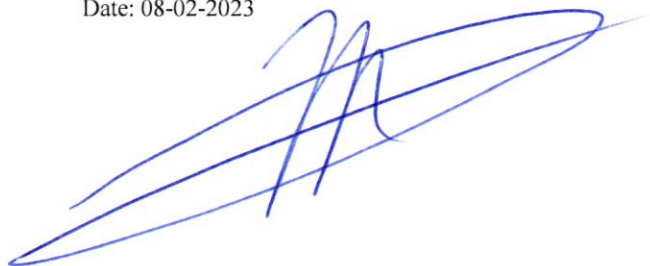
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

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

Date: 08-02-2023



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