



CERTIFICATE OF ANALYSIS

Product : **L-PROLINE**
Product number : P0717
Batch number : 015934
Date of production : 19-12-2020
Date of analysis : 19-12-2020
Date of expiry : 31-12-2023

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	-84.9	°	
Ninhydrin positive substances	≤ 0.5	0,0	%	
Chloride	≤ 200	complies	ppm	
Sulfate	≤ 300	complies	ppm	
Ammonium	≤ 200	complies	ppm	
Iron	≤ 10	complies	ppm	
Heavy metals	≤ 5	complies	ppm	as Pb
Loss on drying	≤ 0.5	0.01	%	
Sulfated ash	≤ 0.1	0.00	%	
Assay	98.5 – 101.0	99.7	%	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: 15-01-2021

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

Duchefa Biochemie B.V.