

## CERTIFICATE OF ANALYSIS

Product : **LEUCINE (L-)**  
 Product number : L0712  
 Batch number : 019043  
 Manufacturing date : 09-05-2021  
 Expiry date : 31-05-2026

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

	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>UNITS</b>	<b>REMARKS</b>
Appearance	white or almost white crystalline powder	complies		
Identification	conform	complies		
Appearance of solution	conform	complies		
pH	5.5 – 6.5	6.0		
Specific optical rotation	+14.9 – +16.0	+15.3	°	20 °C
State of solution	98.0	99.8	%	
Related substances	conform	complies		
Chloride	≤ 0.020	≤ 0.020	%	
Sulphate	≤ 0.020	≤ 0.020	%	
Ammonium	0.02	0.00	%	
Iron	≤ 10	complies	ppm	
Heavy metals	≤ 10	complies	ppm	as Pb
Loss on drying	0.20	0.09	%	
Sulphated ash	0.10	0.00	%	
Assay	98.5 – 101.0	100.0	%	

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

Conclusion: approved

Released by:



S. Bayat, MSc, pharmacist  
Department of Quality Control Duchefa B.V.

Date: 30-01-2025

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

Duchefa Biochemie B.V.