

## CERTIFICATE OF ANALYSIS

Product : VALINE (L-)  
 Product number : V0722  
 Batch number : 017235  
 Date of analysis : 25-02-2022  
 Date of expiry : 28-02-2025

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

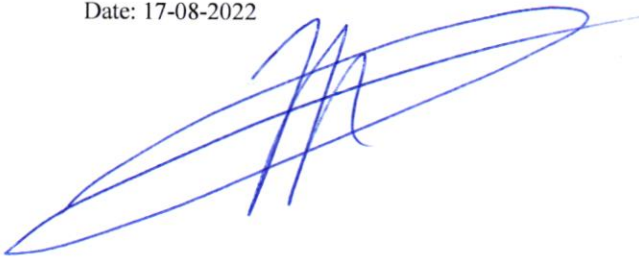
	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white crystalline powder	complies		
Identification	conform	complies		IR-spectrum
Specific optical rotation	+26.5 – +29.0	+27.5	°	
Ammonium at 570 nm	≤ 0.02	< 0.02	%	
Chloride	≤ 200	complies	ppm	
Sulphate	≤ 300	complies	ppm	
Iron	≤ 10	complies	ppm	
Appearance of solution	Clear / ≤ BY6	complies		
Impurity B at 570 nm	≤ 0.4	< 0.05	%	
Loss on drying	≤ 0.5	0.02	%	
Residue on ignition	≤ 0.1	0.05	%	
Assay	98.5 – 101.0	99.3	%	

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: 17-08-2022



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

Duchefa Biochemie B.V.