

## CERTIFICATE OF ANALYSIS

Product : **METHIONINE (L-)**  
 Product number : M0715  
 Batch number : 018152  
 Date of manufacturing : 04-02-2023  
 Date of analysis : 08-08-2023  
 Date of expiration : 28-02-2026

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

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white, crystalline powder or colourless crystals	complies		
Solubility	soluble in water, very slightly soluble in alcohol	complies		
Identification:				
- A (specific optical rotation)	+22.5 – +24.0	complies	°	
- B (IR-spectrum)	conform	complies		
Appearance of solution	clear and colourless	complies		
pH	5.5 – 6.5	5.82		
Specific optical rotation	+22.5 – +24.0	+23.3	°	
Chloride	≤ 200	complies	ppm	
Sulphate	≤ 300	complies	ppm	
Iron	≤ 10	complies	ppm	
Ammonium	≤ 200	complies	ppm	
Loss on drying	≤ 0.5	0.10	%	100 – 105°C
Sulphated ash	≤ 0.1	0.04	%	
Assay	99.0 – 101.0	100.58	%	dried substance

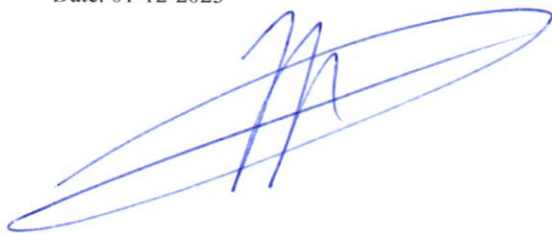
This certificate of analysis is conform the results of the supplier.

Conclusion: approved

Released by:

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

Date: 01-12-2023



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

Duchefa Biochemie B.V.