

## CERTIFICATE OF ANALYSIS

Product : **L-ORNITHINE MONOHYDROCHLORIDE**  
 Product number : O1351  
 Batch number : 016847  
 Date of production : 07-08-2016  
 Date of expiry : 31-07-2023

Packaging and storage : in a well closed container

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white crystalline powder	complies		
Specific rotation	+23.0 – +25.0	+23.2	°	
Transmittance	≥ 98.0	98.5	%	
Ammonium	≤ 200	< 200	ppm	
Sulfate	≤ 200	< 200	ppm	
Iron	≤ 10	< 10	ppm	
Heavy metals	≤ 10	< 10	ppm	as Pb
Arsenic	≤ 1	< 1	ppm	
Loss on drying	≤ 0.20	0.16	%	
Other amino acids	not detectable	complies		HPLC
Residue on ignition	≤ 0.10	0.06	%	
pH	5.0 – 6.0	5.3		
Assay	99.0 – 101.0	99.7	%	

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: 16-02-2022



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

Duchefa Biochemie B.V.