

## CERTIFICATE OF ANALYSIS

Product : **PHENYLALANINE (L-)**  
 Product number : P0716  
 Batch number : 013226  
 Date of analysis : 28-06-2016  
 Date of expiry : 30-06-2021

Packaging and storage : store in a well-closed container, protected from light

	SPECIFICATION	RESULT	UNITS	REMARKS
Appearance	white or almost white crystalline powder	complies		
Specific optical rotation	-33.2 – -35.2	-34.01	°	
IR-spectrum	Conform	complies		
pH	5.4 – 6.4	5.57		
Sulphates	≤ 300	complies	ppm	
Heavy Metals	≤ 20	complies	ppm	as Pb
Lead	≤ 3	complies	ppm	
Arsenic	≤ 1	complies	ppm	
Mercury	≤ 0.1	complies	ppm	
Cadmium	≤ 1	complies	ppm	
Loss on drying	≤ 0.2	0.05	%	105 °C
Residue on ignition	≤ 0.1	0.03	%	
Sulphated ash	≤ 0.1	0.0	%	
Assay	99.0 – 101.0	99.43	%	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: 28-09-2017



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