

## **CERTIFICATE OF ANALYSIS**

Product

L-TRYPTOPHAN

Product number Batch number

T0720

Date of analysis

015705 13-07-2020

Expiry date

31-07-2025

Packaging and storage

store protected from light

Description	SPECIFICATION white to almost white crystalline powder	RESULT complies	UNITS	REMARKS
Identification	conform	complies		
Appearance of solution	conform	complies		1% in 1M HCl
Specific optical rotation	-33.030.0	-30.1	0	1% in H <sub>2</sub> O
Ninhydrin-positive substances	conform	conform	%	HPLC
Impurity A and other related	conform	conform	%	HPLC
substances				
рН	5.5 - 7.0	5.8		1% in H <sub>2</sub> O
Chlorides	$\leq$ 0.02	$\leq$ 0.02	%	
Sulphates	≤ 0.03	$\leq$ 0.03	%	
Ammonium	≤ 0.02	$\leq$ 0.02	%	
Iron	≤ 0.002	$\leq$ 0.002	%	
Heavy metals	≤ 0.0015	$\leq$ 0.0015	%	
Loss on drying	≤ 0.3	0.2	%	3 hr, 105 °C
Sulphated ash	$\leq 0.1$	$\leq$ 0.1	%	
Assay	98.5 - 101.0	99.7	%	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: 15-09-2020

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

Duchefa Biochemie B.V.