

CERTIFICATE OF ANALYSIS

Product : **L-TRYPTOPHAN**
 Product number : T0720
 Batch number : 011872
 Date of analysis : 05-06-2015
 Expiry date : 30-06-2020
 Packaging and storage : store protected from light

Description	SPECIFICATION	RESULT	UNITS	REMARKS
Identification	white to almost white crystalline powder	complies		
Appearance of solution	conform	complies		1% in 1M HCl
Specific optical rotation	-33.0 – -30.0	-30.0	°	1% in H ₂ O
Ninhydrin-positive substances	conform	< 0.5	%	TLC
Impurity A and other related substances	conform	conform		HPLC
pH	5.5 – 7.0	6.29		1% in H ₂ O
Chlorides	≤ 200	< 200	ppm	
Sulphates	≤ 300	< 300	ppm	
Ammonium	≤ 200	< 200	ppm	
Iron	≤ 20	< 20	ppm	
Heavy metals	≤ 10	< 10	ppm	
Loss on drying	≤ 0.5	0.00	%	105 °C
Sulphated ash	≤ 0.1	0.00	%	
Assay	98.5 – 101.0	100.67	%	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: 28-01-2016



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