

## **CERTIFICATE OF ANALYSIS**

**Product** 

TYROSINE (L-)

Product number Batch number Date of production Date of expiry

T0721 013445

03-05-2017 31-05-2020

Packaging and storage

store in a well closed container at room temperature

Appearance	SPECIFICATION white crystalline powder or colourless crystals	RESULT complies	UNITS	REMARKS
Solubility	soluble in water	complies		0.4 g/l
Identification	conform	complies		IR-spectrum
Appearance of solution	clear and colourless	conform		1
Specific optical rotation	-12.311.0	-11.65	0	dried substance
Ninhydrin positive substances	≤ 0.5	< 0.5		
Chloride	≤ 200	< 200	ppm	
Sulphate	≤ 300	< 300	ppm	
Ammonium	≤ 200	< 200	ppm	
Iron	≤ 10	< 10	ppm	
Heavy metals	≤ 10	< 10	ppm	as Pb
Loss on drying	≤ 0.5	< 0.5	%	
Sulphated ash	≤ 0.1	< 0.1	%	
Assay	99.0 - 101.0	99.3	%	

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: 19-01-2018

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

Postbus 809 - 2003 RV Haarlem - The Netherlands telephone: +31(0)23 - 531 90 93 iban: NL54 INGB 0651 4661 80 k.v.k. in Amsterdam: 34073001 visiting address: A. Hofmanweg 71 - 2031 BH Haarlem

telefax: +31(0)23 - 531 80 27 bic: INGBNL2A

website: www.duchefa.com

e-mail: info@duchefa.nl