



## CERTIFICATE OF ANALYSIS

Product : **L-ISOLEUCINE**  
Product number : I0711  
Batch number : 017656  
Date of analysis : 03-27-2023  
Date of expiry : 31-01-2027  
  
Packaging and storage : in a well closed container

	<b>SPECIFICATION</b>	<b>RESULT</b>	<b>UNITS</b>	<b>REMARKS</b>
Appearance	white or almost white crystalline powder or flakes	complies		
Solubility	sparingly soluble in water, slightly soluble in alcohol, it dissolves in dilute mineral acids and in dilute solutions of alkali hydroxides	complies		
Appearance of solution	clear and colour $\leq$ GB6	complies		
Identification	conform	complies		IR-spectrum
Specific rotation	+38.9 – +41.8	+40.2	°	dried substance
Organic voltaic impurities	conform	complies		
pH	5.5 – 7.0	6.1		
Heavy metals	$\leq$ 15	complies	ppm	
Chloride	$\leq$ 500	complies	ppm	
Sulfate	$\leq$ 300	complies	ppm	
Iron	$\leq$ 30	complies	ppm	
Loss on drying	$\leq$ 0.3	0.07	%	105°C
Residue on ignition	$\leq$ 0.3	0.05	%	
Assay	98.5 – 101.5	99.2	%	HPLC

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

drs. M. van Wissen, MSc, pharmacist  
Department of Quality Control Duchefa B.V.

Date: 03-04-2023

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