Duchefa Biochemie b.v.

biochemicaliën
biochemicals

CERTIFICATE OF ANALYSIS

Product	:	**L-ISOLEUCINE**
Product number	:	I0711
Batch number	:	011313
Date of analysis	:	11-11-2014
Date of expiry	:	30-11-2017
Packaging and storage	:	in a well closed container

	SPECIFICATION	RESULT	UNITS	REMARKS
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 ≤ ref. sol. BY_6	complies		
Identification	conform	complies		IR-spectrum
Specific rotation	+40.0 – +43.0	+41.3	°	dried substance
Related substances	conform	complies		HPLC
Impurity A	≤ 0.3	< 0.3	%	
Impurity C	≤ 0.3	< 0.3	%	
Any other impurites	≤ 0.2	< 0.2	%	
Total impurities	≤ 1.0	< 1.0	%	
Chlorides	≤ 200	complies	ppm	
Sulfate	≤ 300	complies	ppm	
Ammonium	≤ 0.02	< 0.02	%	
Iron	≤ 10	complies	ppm	
Heavy metals	≤ 10	complies	ppm	
Loss on drying	≤ 0.5	0.0	%	105°C
Residue on ignition	≤ 0.1	complies	%	
Assay	98.5 – 101.0	100.5	%	dried substance, titration

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: 09-06-2015

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

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