

CERTIFICATE OF ANALYSIS

Product Name: L-Leucine
 CAS NO.: 61-90-5
 Batch No.: 17/MFM/1983
 Molecular Weight: 131.18
 Expiry Date: October 2023
 Storage Temp: + 20°C

TESTS	SPECS	RESULTS
Assay	98.5% - 101.0% (dried basis)	99.7%
Appearance	White crystals or crystalline powder	Conforms
pH	5.5 – 7.0	5.8
Specific optical rotation	+14.9° to +17.3°	+15.5°
Residue on ignition	<= 0.1%	0.04%
Loss on Drying	<= 0.2%	0.14%
Chloride (Cl)	<= 0.05%	Conforms
Iron (Fe)	<= 30ppm	Conforms
Lead (Pb)	<= 3ppm	Conforms
Sulphate (SO4)	<= 0.03%	Conforms
Heavy metals	<= 15ppm	Conforms
Cadmium (Cd)	<= 1ppm	Conforms
Mercury (Hg)	<= 0.1ppm	Conforms
Arsenic (As)	<= 1ppm	Conforms
Pharmacopoeia specification(s)	USP	Conforms to USP24

* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:

Prepared on behalf of
 Formedium Ltd, Unit 1B
 Hunstanton Commercial Park
 PE36 5JQ, England
 (Authorised Signature)

Date: 28 SEP 2017