

CERTIFICATE OF ANALYSIS

Product Name: L-Methionine
 CAS NO.: 63-68-3
 Batch No.: 17/MFM/1986
 Molecular Weight: 149.21
 Expiry Date: February 2022

TESTS	SPECS	RESULTS
Assay	98.5% - 101.5%	100.2%
Appearance	White powder	Conforms
Solubility (5% in 1M HCl)	Clear, colourless solution	Conforms
pH (1% in water)	5.6 – 6.1	5.8
Specific optical rotation	+22.4° to +24.7°	+23.1°
Residue on ignition	<= 0.4%	0.11%
Loss on Drying	<= 0.3%	0.13%
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 (As2O3)	<= 1ppm	Conforms
Pharmacopoeia specification(s)	USP	Conforms to USP32

* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:

FORMEDIUM Ltd, Unit 1B
 Hunstanton Commercial Park
 PE36 5JQ England
 (Authorised Signatures)

Date: 28 SEP 2017