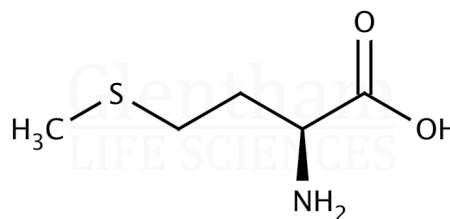


## Certificate of Analysis

Product Name	L-Methionine
Glentham Code	GM0532
CAS Number	63-68-3
EINECS	200-562-9
MDL Number	MFCD00063097
PubChem SID	310276219
Batch Number	134GIE
Molecular Weight	149.21
Molecular Formula	$C_5H_{11}NO_2S$
Storage Temp.	+20°C



Property	Specification	Batch 134GIE
Physical Description	White or off-white powder	Almost white powder
Identification	IR	Conforms
Solubility (5% in 1M HCl)	Clear, colourless solution	Clear, colourless solution
pH (1% in water)	5.6 - 6.1	5.9
Specific Optical Rotation	+22.4 - +24.7 °	+23.8°
Chloride (Cl)	≤ 0.05%	≤ 0.05%
Sulphate (SO4)	≤ 0.03%	≤ 0.03%
Heavy Metals (as Pb)	≤ 15ppm	≤ 15ppm
Lead (Pb)	≤ 3ppm	≤ 3ppm
Mercury (Hg)	≤ 0.1ppm	≤ 0.1ppm
Arsenic (As)	≤ 1ppm	≤ 1ppm
Cadmium (Cd)	≤ 1ppm	≤ 1ppm
Iron (Fe)	≤ 30ppm	≤ 30ppm
Any Individual Impurity	≤ 0.5% (TLC)	≤ 0.5%
Total Impurities	≤ 2.0% (TLC)	≤ 2.0%
Loss on Drying	≤ 0.3% (105°C)	0.1%
Residue on Ignition	≤ 0.4%	0.08%
Assay	98.5 - 101.5 %	99.3%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2022-05-08
Re-Test Date	2030-10-27

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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