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## 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

$$H_3C$$
 $S$ 
 $OH$ 
 $OH$ 

Property Specification Batch 134GIE Physical Description White or off-white powder Almost white powder Identification IR Conforms Solubility (5% in 1M HCI) Clear, colourless solution Clear, colourless solution 5.6 - 6.1 pH (1% in water) +22.4 - +24.7 ° +23.8° Specific Optical Rotation Chloride (CI) ≤ 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 ≤ 0.5% (TLC) ≤ 0.5% Any Individual Impurity **Total Impurities** ≤ 2.0% (TLC) ≤ 2.0% Loss on Drying ≤ 0.3% (105°C) 0.1% ≤ 0.4% 0.08% Residue on Ignition 98.5 - 101.5 % 99.3% Assay 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 or contact us using the details above for the current version of this document.

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