


# CERTIFICATE OF ANALYSIS

Product Name:	L-Methionine	Report Date:	Aug 04, 2017
Formula:	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S	Batch No.:	170801
CAS No.:	63-68-3	Manu. Date:	Aug 01, 2017
Inspection Standard:	USP38	Exp. Date:	Jul 31, 2019

## RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation [ $\alpha$ ] <sub>D25</sub>	+22.4 to +24.7°	+23.0°
pH	5.6 to 6.1	5.8
Loss on drying	Not more than 0.3%	0.13%
Residue on ignition(sulfated)	Not more than 0.4%	0.09%
Chloride(Cl)	Not more than 0.05%	<0.05%
Sulfate(SO <sub>4</sub> )	Not more than 0.03%	< 0.03%
Iron(Fe)	Not more than 0.003%	<30ppm
Heavy metals(Pb)	Not more than 0.0015%	<15ppm
Chromatographic purity	Not more than 0.5% of any individual impurity is found. Not more than 2.0% of total impurities is found.	Conforms
Residue solvents	Meets the requirement	Conforms
Assay	98.5 to 101.5 %	99.8%
<b>Conclusion:</b>	Conforms to the specifications of USP38	

Analyst: **侯健之**Auditor: **辽薛兰**Chief of QC: **于铁梅**