


# CERTIFICATE OF ANALYSIS

Product Name:	L-Glutamine	Report Date:	Aug 04, 2017
Formula:	C <sub>5</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub>	Batch No.:	170802
CAS No.:	56-85-9	Manu. Date:	Aug 02, 2017
Inspection Standard:	FCCIV	Exp. Date:	Aug 01, 2019

## RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystalline powder	Conforms
Identification	A purple color appears	Conforms
Assay	98.5 to 101.5 %	99.8%
Heavy metals (Pb)	Not more than 10ppm	<10ppm
Loss on drying	Not more than 0.3%	0.05%
Residue on ignition(sulfated)	Not more than 0.1%	0.08%
Iron(Fe)	Not more than 0.003 %	< 30ppm
Specific rotation $[\alpha]_D^{25}$	+6.3 to +7.3°	+6.4°
Heavy metals (Pb)	Not more than 0.0015%	<3ppm
<b>Conclusion:</b>	Conforms to the specifications of FCCIV	

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