

CERTIFICATION OF ANALYSIS

Product Name: L-Glutamine

Manufacture Date: 2021.12.26

Batch No.: 20211226

Quantity: 1000KGS

Report Date: 2021.12.27

Expiry Date: 2023.12.25

Item	Specification	Result
Description	White crystalline or crystalline powder	Conforms
Identification	Concordant with the reference spectrum	Conforms
Assay	98.5% to 101.5%	99.5%
Specific rotation [α] _D ²⁰	+ 6.3 to + 7.3°	+ 6.82°
Loss on drying	Not more than 0.3%	0.17%
Residue on ignition	Not more than 0.10%	0.05%
Heavy metals	Not more than 15ppm	Conforms
Lead	Not more than 3ppm	Conforms
Arsenic(as As ₂ O ₃)	Not more than 1ppm	Conforms
Mercury	Not more than 0.1ppm	Conforms
Cadmium	Not more than 1ppm	Conforms
Organic volatile impurities	Meets the requirements	Conforms
Bulk density	/	0.52g/cc
Total Plate Count	Not more than 1000cfu/g	Conforms
Yeast and Mould	Not more than 100cfu/g	Conforms
E.Coli	Negative	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative
Conclusion :	The products Conforms to FCCVI	