

CERTIFICATION OF ANALYSIS

Product Name: L-Tyrosine
Manufacture Date: 2021.12.11
Batch No.: 20211211
Quantity: 1000KGS

Report Date: 2021.12.12
Expiry Date: 2023.12.10

Item	Specification	Result
Appearance	White crystalline or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation [α]D20	-9.8 to -11.2°	-10.5°
pH	5.5 to 7.0	6.2
Loss on drying	Not more than 0.3%	0.17%
Residue on ignition	Not more than 0.40%	0.14%
Chloride (Cl)	Not more than 0.04%	Conforms
Sulfate(SO4)	Not more than 0.04%	Conforms
Iron(Fe)	Not more than 30ppm	Conforms
Heavy metals	Not more than 15ppm	Conforms
Lead	Not more than 3ppm	Conforms
Arsenic(as As2o3)	Not more than 1ppm	Conforms
Mercury	Not more than 0.1ppm	Conforms
Cadmium	Not more than 1ppm	Conforms
Chromatographic purity	As per usp32	Conforms
Organic volatile impurities	As Per usp32	Conforms
Assay	98.5% to 101.5%	99.5%
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 usp32	