

CERTIFICATE OF ANALYSIS

Product Name: L-Tyrosine	
Batch No.: 1021112104	Quantity: 1000kg
Manufacture Date: 21st November, 2021	Retest Date: 20th November, 2023
Reference standard: USP39	Package : 25kg/drum

Item:	Standard	Results
Appearance	White Crystalline powder	Conforms
Colour	Whitish	Conforms
Aroma	None	None
Identification	Infrared absorption	Conforms
Clarity and color of solution	White and cloudy	Conforms
Assay	99.0 – 101.0%	99.9%
Specific Rotation	-9.8° ~ -11.2°	-10.7°
Loss on Drying	≤0.30%	0.11%
Ignited Residue	≤0.40%	0.06%
Chloride	≤0.04%	<0.04
Sulphate	≤0.04%	<0.04
Heavy Metals	≤15ppm	<15ppm
Iron	≤30ppm	<30ppm
Chromatographic purity	Conforms	Conforms
Organic volatile impurities	Meets the Requirement	Conforms
Total Plate Count	≤1000 cfu/g	<10 cfu/g
Yeast and Moulds	≤100 cfu/g	<10 cfu/g
Salmonella	Absent in 25g	Negative
E.Coli	Absent in 10g	Negative
Conclusion: This batch is conforming with the Standard of USP39.		