

## CERTIFICATE OF ANALYSIS

Product name:	L-Tyrosine		
Batch No.:	CP3719110901	Quantity:	1200KGS
Manufacture date:	November 09, 2019	Expiry date:	November 09, 2022

Reference standard:	AJI92	
ITEM	STANDARD	RESULT
Identification:	Infrared Absorption	Qualified
Specific rotation $[\alpha]_D^{20}$ :	-9.8 to -11.2 ° °	-10.5°
Loss on drying	not more than 0.3%	0.13%
Residue on ignition	not more than 0.4%	0.07%
Chloride (Cl)	not more than 0.4%	<0.03%
Sulfate (SO <sub>4</sub> )	not more than 0.4%	<0.03%
Iron (Fe)	not more than 0.003%	<0.002%
Heavy metals (Pb)	not more than 0.0015%	<0.001%
Chromatographic Purity	As per USP30 (By TLC)	Qualified
Individual impurity	≤0.5%	<0.5%
Total impurity	≤2.0%	<2.0%
Organic volatile impurities	Meets the requirements	Qualified
Assay	98.5 to 101.5%	99.63%
Conclusion:	Material conforms to the USP30 standard.	
Analysis date:	November 09, 2019	