

## CERTIFICATE OF ANALYSIS

Product Name	L-Tyrosine	Batch No	PY-TY20200613
Quantity	1000KG	Analysis Date	Jun.16,2020
Mfg. Date	Jun.13,2020	Exp. Date	Jun.12,2022
Package	25kg/Drum	Standard	USP39

No.	Item	Specification	Result
1.	Appearance	White crystals or crystalline powder	Complies
2.	Identification	Infrared Absorption	Complies
3.	Assay	98.5% ~ 101.5%	99.5%
4.	Specific Rotation	-9.8° ~ -11.2°	-10.4°
5.	Chloride(C1)	≤0.04%	<0.04%
6.	Sulfate(SO4)	≤0.04%	<0.04%
7.	Iron(Fe)	≤30ppm	<30ppm
8.	Heavy Metals	≤15ppm	<15ppm
9.	Loss on Drying	≤0.30%	0.15%
10.	Residue on Ignition	≤0.40%	0.07%
11.	Organic Impurities	Individual impurity≤0.5% Total impurities≤2.0%	Complies Complies
12.	Conclusion	Conform with USP39 Standard.	

Analyst: xuli

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