

CERTIFICATE OF ANALYSIS

Product Name	L-Proline	Batch No	PY-PR20210113
Quantity	1000KG	Analysis Date	Jan.16,2021
Mfg. Date	Jan.13,2021	Exp. Date	Jan.12,2023
Package	25kg/Drum	Standard	USP39

No.	Item	Specification	Result
1.	Appearance	White crystals or crystalline powder	Complies
2.	Identification	Infrared Absorption	Complies
3	Specific Rotation	-84.3°~ -86.3°	-85.1°
4.	Loss on Drying	≤0.4%	0.04%
5.	Residue on Ignition	≤0.4%	0.04%
6.	Chloride	≤0.05%	<0.05%
7.	Sulfate	≤0.03%	<0.03%
8.	Iron	≤30ppm	<30ppm
9.	Heavy Metals	≤15ppm	<15ppm
10.	Related Compounds	NMT 0.5% of any individual impurity is found; NMT 2.0% of total impurities is found	Complies Complies
11.	Assay	98.5%-101.5%	99.5%
12.	Conclusion Conform with USP39 Standard.		

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