

CERTIFICATE OF ANALYSIS

Product Name	D-Mannose	Batch No	PY-MA20190622
Quantity	1000KG	Analysis Date	Jun.25,2019
Mfg. Date	Jun.22,2019	Exp. Date	Jun.21,2021
Package	25kg/Drum	Standard	Enterprise Standard
DPL Code	101926	Shelf Life	2 Years

No.	Item	Specification	Result
1.	Appearance	White crystalline powder	White crystalline powder
2.	Assay	≥99.0%	99.5%
3.	Clarity & Color	Clear colorless	Clear colorless
4.	Melting Point	126.0℃-134℃	126.0℃-131.0℃
5.	Specific Optical Rotation	+14° ~ +15°	+14.2°
6.	Loss on Drying	≤0.5%	0.1%
7.	Ash	≤0.1%	<0.1%
8.	Heavy Metals	≤5ppm	<5ppm
9.	Pb	≤1.5ppm	<1.5ppm
10.	As	≤0.3ppm	<0.3ppm
11.	Cd	≤1.0ppm	<1.0ppm
12.	Hg	≤0.1ppm	<0.1ppm
13.	Total Plate Count	≤1,000cfu/g	<10cfu/g
14.	Yeasts & Molds	≤200cfu/g	<20cfu/g
15.	E.Coli	Negative	Negative
16.	Salmonella	Negative	Negative
17.	Staphylococcus aureus	Negative	Negative

Conclusion: Conform to the Enterprise Standard.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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