



Certificate of Analysis

D-Mannose USP

Catalog Number: MA1001
Lot Number: 0415901
CAS Number: 3458-28-4
Synonym(s): D-Mannopyranose
Molecular Formula: C₆H₁₂O₆
Molecular Weight: 180.16
Storage: 15°C – 30°C
Date of Manufacture: November 16, 2018
Retest Date: November 15, 2023

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay	99.0 – 105.0%	99.15%
Identification (IR)	To match standard	Conforms
Melting Point	126.0°C – 134.0°C	128.0°C – 132.0°C
Optical Rotation	+13.3° - +14.3°	+13.7°
Moisture (LOD)	≤ 0.5%	0.05%
Heavy Metals	≤ 10µg/g	< 10µg/g
Arsenic	≤ 1.0µg/g	< 0.1µg/g
Cadmium	≤ 0.5µg/g	< 0.01µg/g
Lead	≤ 1.0µg/g	< 0.1µg/g
Mercury	≤ 0.5µg/g	< 0.01µg/g
Total Plate Count	< 1,000cfu/g	< 10cfu/g
Mold & Yeast	< 100cfu/g	< 10cfu/g
Coliforms	<10cfu/g	< 10cfu/g
<i>E. coli</i>	Negative	Negative
<i>Salmonella</i>	Negative	Negative
<i>S. aureus</i>	Negative	Negative
Residual Solvents	To meet requirements	Conforms
Pesticide Residues	To meet requirements	Conforms
Aflatoxins	≤ 20ppb	Not detected
Powder Size	≥ 60% through 20mesh ≥10% through 100mesh	Conforms
Bulk Density	0.25 – 0.60g/mL	0.35g/mL
Tapped Density	0.46 – 0.80g/mL	0.49g/mL
This lot conforms to typical specifications for USP40.		

Approved by:

Date: April 16, 2019



Gojira Fine Chemicals, LLC

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