

## Certificate of Analysis

Product Name	D-Mannitol	Mfg. Date	2019.11.15
Batch No.	KNG00319111503	Testing Date	2019.11.16
CAS No.	69-65-8	Exp. Date	2021.11.14

Items	Specifications	Results
Assay	98.0~102.0%	98.23%
Appearance	White crystalline powder	Complies
Loss on drying	≤1%	0.58%
Solubility	Freely soluble in water, practically insoluble in ethanol	Complies
Identification 1. Specific optical rotation 2. Melting point 3. IR	+ 23° to + 25° 165 °C to 170 °C Meet the requirements	Complies Complies Complies
Reducing Sugars	≤0.1%	0.055%
A Sorbitol (Disregard limit ≤0.05%)	≤2.0%	1.07%
Related substances	Impurity A ≤2.0% Impurities B & C ≤2.0% Unspecified impurities ≤0.1% Total ≤2.0% Disregard limit ≤0.05%	<2.0% <2.0% <0.1% <2.0% <0.05%
Heavy Metals	≤10ppm	<10ppm
Nickel	≤1ppm	<1ppm
Microbiological Control		
Total Plate Count	≤1000cfu/g	<1000 cfu/g
Yeast & Mould	≤100cfu/g	<100 cfu/g
Salmonella	Negative	Undetected
E.Coli	Negative	Undetected
Conclusion	The product complies with specifications	



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