

Certificate of Analysis

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Product Mannitiol 69-65-8 Batch Number CAS No. 20140829002 MFG Date N.W. 500.00kg August.29, 2014 G.W. 506.00kg Analysis Date August.29, 2014 25.0kg /bag Retest Date August.28, 2016 Packing

<u>Sr. No.</u>	<u>Items</u>	<u>Specification</u>	<u>Results</u>
01	Appearance (25 $^{\circ}\!$	White or light yellow crystalline powder	Confirms
02	Assay, %	96.0 ~ 101.5	99.72
03	Identification	Infrared absorption: complies with standard	Confirms
04	Melting point, C	164~169	166.2~168.1
05	Specific optical rotation	+137 ° ~ +145 °	+141.0 °
06	Acidity (0.02mol/L NaOH)	Complies with standard	Confirms
07	Loss on drying, %	≤0.30	0.20
08	Chloride, %	≤0.007	< 0.007
09	Sulphate, %	≤0.01	< 0.01
10	Arsenic, ppm	≤1	<1
11	Reducing sugars	Complies with standard	Confirms
12	Residual solvents	The raw materials, manufacturing	Confirms
		process and product do not contain any of	
		the solvents listed in Residual Solvent	
		(USP < 467 >)	

Prepared by Dong Mei Checked by Wang Tianyi Approved by Liu Wu

Conclusion The Quality of the above said is in conformity with USP35 Standard

Storage Stored in dry and ventilation place, far from heat and waters

COA Issuer Quality Control Team-Technology Department

LAB TEST CENTER