



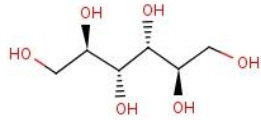
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: **DYC071705032**

Product name	Mannitol
CAS Number	87-78-5;69-65-8
Molecule Structure	
Molecule Formula	C6H14O6
Batch number	20170226
Manufacture date	2017-02-26
Testing date	2017-02-27
Expiry date	2020-02-25
Specification	USP38

Items	Standard	Test Result
Characters	White crystal powder	White crystal powder
Identification	The result of infrared spectrum conforms to USP38.	
Clarity & Color	Clear and colorless	Clear and colorless
Acid degree, ml	≤0.3	<0.2
Chloride, %	≤0.007	<0.007
Sulphate, %	≤0.01	<0.01
Loss on drying, %	≤0.5	0.10
Arsenate, %	≤0.0001	<0.0001
Nickel, %	≤0.0001	<0.0001
Sorbitol, %	≤2.0	<2.0
Malt and Isomalt, %	≤2.0	<2.0
Unspecified impurities, %	≤0.1	<0.1
Total impurities, %	≤2.0	<2.0
Assay, %	97.0~102.0	99.64
Melting point, °C	165.0~170.0	167.7
Reducing Sugar, %	≤0.1	<0.1
Specific Rotation, °	+137~+145	+140.3
Conductivity, μ S/CM	≤20	3.75
Bacteria, cfu/g	≤100	<10
Fungi, cfu/g	≤100	<10

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Escherichia coli, cfu/g	Negative	Negative
Endotoxins, IU/g	<2.5	<2.5
Conclusion	The goods is qualified according to USP38.	

QUALITY CONTROL:
Hangzhou Dingyan Chem Co., Ltd.
Quality Control.....*Edith*.....
Signature(s)

CHECK:姚仙娟

INSPECTOR: 刘清风