



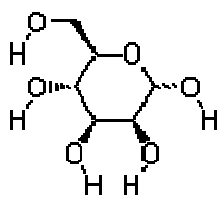
HANGZHOU DINGYAN CHEM CO.,LTD

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

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

CERTIFICATE OF ANALYSIS

NO: DYC041712081

Product name	D(+)-Mannose
CAS Number	3458-28-4
Molecule Structure	
Molecule Formula	C12H24O12
Batch number	20171112
Manuf&Exp. Date	2017-11-12, 2019-11-11
Testing date	2017-11-16

Items	Standard	Result
Appearance	White crystals or crystalline powder	Conforms
Solubility	Clear colorless solution	Conforms
Specific rotation $[\alpha]_D^{20}$	+13.7° ~+15.0°	+14.1°
Heavy metals(Pb)	10ppm max	10ppm max
Loss on drying	0.50% max	0.19%
Assay	99.0%min	99.2%
Melting point	126~134°C	128.6~132.7°C
Total plate count	1000cfu/g max	1000cfu/g max
Yeast & Mold	100cfu/g max	100cfu/g max

Hangzhou Dingyan Chem Co., Ltd.
QUALITY CONTROL: *Cristina* CHECK: 姚仙娟 INSPECTOR: 刘清风
Quality Control Signature(s)

Add: Xiasha 571,19TH Street E-COMMERCE 4A601-602,Jiangan Area, Hangzhou, China