



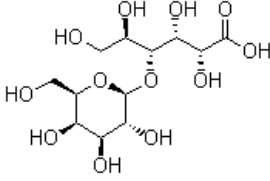
HANGZHOU DINGYAN CHEM CO.,LTD

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## CERTIFICATE OF ANALYSIS

NO: **DYC041510121**

Product name	Lactobionic acid
CAS Number	96-82-2
Molecule Structure	
Molecule Formula	C <sub>12</sub> H <sub>22</sub> O <sub>12</sub>
Batch number	20161120
Manuf&Exp. Date	2016-11-21, 2018-11-20
Testing date	2016-11-21

Items	Standard	Result
Appearance	White or almost white crystalline powder	White crystalline powder
Clarity	Clear	Clear
Specific optical rotation	+23° --+29°	+24.5°
Water content	5.0% Max	4.85%
Total Ash	0.1% Max	0.09%
PH	1.0-3.0	2.4
Calcium	500ppm Max	Less than 500ppm
Chloride	500ppm Max	Less than 500ppm
Sulfate	500ppm Max	Less than 500ppm
Iron	100ppm Max	Less than 100ppm
Reducing sugars	0.2% Max	<0.2%
Heavy metals	10ppm Max	<10ppm
Assay	98.0%-102.0%	101.26%
Total Bacteria Count	100Col/g Max	Complies
Endotoxin Level	10 EU/g Max	Complies
Salmonella	Negative	Complies
E. Coli	Negative	Complies
Pseudomonas aeruginosa	Negative	Complies

Hangzhou Dingyan Chem Co., Ltd.  
QUALITY CONTROL: *Cristina*  
Quality Control

CHECK: 姚仙娟

INSPECTOR: 刘清风

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