



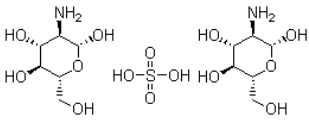
HANGZHOU DINGYAN CHEM CO.,LTD

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

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

CERTIFICATE OF ANALYSIS

NO: **DYC081901081**

Product name	Glucosamine sulfate 2KCL
CAS Number	14999-43-0
Molecule Structure	
Molecule Formula	C12H28N2O14S
Batch number	20180310
Manufacture date	2018-03-10
Testing date	2018-03-11
Expiry date	2020-03-10

Items	Standard	Test Result
Appearance	White crystalline powder	White crystalline powder
Identification A. (Infrared absorption) B. (Chloride, potassium and sulfate test) C. (Retention time)	Meet the requirements	Meet the requirements
Specific rotation	+47.0° ~+53.0°	+55.8°
Solubility	Transmittance >90%	98.3%
Color	Absorption <0.25	0.18
Particle size	100% pass through 20mesh sieve	100% through 20mesh sieve
Loss on drying	≤1.0%	0.05%
Residue in ignition	26.5%~31.0%	27.8%
Sodium	Meet the requirements	Meet the requirements
Arsenic	≤3ppm	1.0ppm
Heavy metals	≤10ppm	<10ppm
PH	3.0~5.0	4.5
Sulfate	15.5~16.5%	16.2%
Assay	98.0~102.0%	99.7%
Total plate count	≤1000cfu/g	<10cfu/g
Yeast&Mold	≤100cfu/g	<10cfu/g
Salmonella	Negative	Negative

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E.Coli	Negative	Negative
Staphylococcus aureus	Negative	Negative
Conclusion	Conforms to USP38.	

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

CHECK:姚仙娟

INSPECTOR: 刘清风