

# MID-WEST NUTRITION

925 W 6<sup>th</sup> St Fremont NE 68025  
Phone: 402-991-6876 Fax: 415-329-1920

## CERTIFICATE OF ANALYSIS

产品: D-氨基葡萄糖盐酸盐  
Product: D-Glucosamine Hcl  
检验方法: USP 39  
TEST METHOD: USP 39  
分析日期:  
Date of Analysis: 2017.01.09

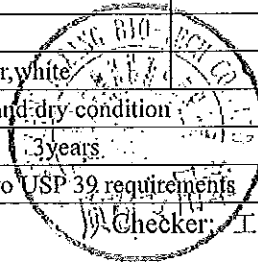
批号:  
Batch No: GB170110  
数量  
QUANTITY: 3000KG  
生产日期  
MFG.DATE: 2017.01.09  
有效日期:  
EXP. DATE: 2020.01.08

Specification	Standard	Test Result
含量 Assay (drying basis)	98%~102%	99.54%
鉴别 Identification	A:Infrared Absorption 197K.B:It meets the requirements of the tests for Chloride 191.C:The retention time of the major peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the Standard preparation,as obtained in the Assay.	Conform
溶解性 Solubility	Soluble in water, slightly soluble in alcohol	Conform
旋光度 Specification Rotation	70° - 73°	72.27°
P H 值 PH value(2%.25° )	3.0~5.0	4.11
干燥失重 Loss on drying	≤0.5%	0.05%
氯离子 Chloride	16.2-16.7%	16.48%
硫酸根 Sulfate	≤0.24%	Conform
残渣 Residue on Ignition	≤0.1%	0.06%
颗粒度 Mesh size	100% thru 40 mesh	Conform
堆积密度 Bulk density	≥0.7g/ml	0.74g/ml
有机挥发物 Organic volatile impurities	Meet requirement	Conform
重金属 Heavy metal	≤0.001%	<0.001%
铅 Lead	≤3ppm	<0.5ppm
镉 Cadmium	≤1ppm	<0.5ppm
汞 Mercury	≤0.1ppm	<0.1ppm
砷盐 Arsenic	≤3ppm	≤0.5ppm
微生物检测 Microbial Limits		
总菌数 Total aerobic microbial count	≤500cfu/g	Pass
杂菌数 Yeast Mold	≤100cfu/g	Pass
大肠杆菌 E-Coli	Negative	Pass
沙门氏菌 Salmonella	Negative	Pass
级别 Distinction	Food grade	Pass
外观 Appearance	Crystallin powder, white	Pass
贮存条件 Storage condition	Cool and dry condition	
保质期 Shelf life	3 years	
结论 Conclusion	Conform to USP 39 requirements	

Conclusion: Qualified

Inspector: 工号-01

Checker: 工号-03





Health Level One Inc.,  
180 Adams Avenue, Hauppauge, NY, 11788  
Ph: 631-345-6300, Fax: 631-345-6303  
[www.healthlevelone.com](http://www.healthlevelone.com)

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**CERTIFICATE OF ANALYSIS**

Company Name & Address:

Lab Control Number: CH3701117

CoA Date: 08/18/17

PO # (if applicable): 117059

Date Received : 08/15/17

**PRODUCT NAME:** RW00C38, Glucosamine HCl

**LOT NUMBER:** 00072178 (GE170110)

**DESCRIPTION:** White colored powder

TEST	METHOD	SPECIFICATIONS	RESULT	NOTEBOOK REFERENCE
Glucosamine HCl	SOP-TP-2.10 (HPLC) <USP/NF>	98.0 – 102.0%	99.35 %	LB 6U13/09

Approved by:

*M. Bhasin*

Director, Health Level One Inc.,

08/18/17

Date