

lot# 090718-08



# Certificate Of Analysis

\*\*Do Not Feed to Cattle or other Ruminants\*\*

<b>Customer:</b> [REDACTED]	<b>Customer Item #:</b> 81700149
<b>Customer PO #:</b> 40704	<b>Ship Date:</b> 9/5/2018
<b>Description:</b> Glucosamine HCl Powder	<b>Lot #:</b> 513Y1807012

	<u>Standard</u>	<u>Result *</u>
<b><u>Physical Properties</u></b>		
Appearance	White free flowing powder	Complies
Bulk Density Loose (gm/cc)	>= 0.60 <= 0.90	0.78
Particle size thru # 20 (%)	>= 95	Complies
<b><u>Analytical</u></b>		
Assay (Glucosamine HCl, Dry Basis, %)	>= 98.0 <= 102.0	99.5
Identification A	Meets the requirements	Complies
Identification B	Meets the requirements	Complies
Identification C	Meets the requirements	Complies
Loss on drying (%)	<= 1.0	0.1
pH	>= 3.0 <= 5.0	4.4
Specific rotation (deg)	>= +70.0 <= +73.0	+71.5
ROI (%)	<= 0.1	0.1
Sulfate (%)	<= 0.24	Complies
Lead (ppm)	<= 0.5	<0.5
Arsenic (ppm)	<= 1.5	<0.5
Cadmium (ppm)	<= 0.5	<0.5
Mercury (ppm)	<= 0.2	<0.1
<b><u>Microbiological</u></b>		
APC (CFU/gm)	<= 1000	Complies
Yeast/mold (CFU/gm)	<= 100	Complies
E. coli (CFU/gm)	Negative	Complies
Salmonella (25 gm)	Negative	Complies
<b><u>Storage Conditions</u></b>		
Manufacture date		July 05, 2018
Expiration date		July 05, 2021
Storage		Cool dry place sealed in light resistant container
Manufactured by		Plant # 513
Country of origin		China
Revision #		Rev 7 7/25/2016



# Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetic Testing

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Customer:

Address:



## ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: **Glucosamine HCL**

Product Code: 81700149

Batch/Lot #: 100218-09

MQL Accession #: 181019-0097

PO#: 101718-02/RG

Sample Description: Raw

Quantity Provided: 75g

Rush: N/A

Received Date: 10/19/18

Test Requested:	Test Method Number:	Client Specification:	Results:
Glucosamine HCL	MQLTM-0080 By HPLC	>98%	99%


Prepared By:

  
Jeanette Campos/Laboratory Assistant

OCT 29 2018

10/29/18

Reviewed By:

  
Adrienne Henson/Customer Service Rep

OCT 29 2018

10/29/18

*The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.*

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