

LOT# 060718-01



Certificate Of Analysis

Do Not Feed to Cattle or other Ruminants

Customer: The Garmon Corporation	Customer Item #: 81700096
Customer PO #: 40282 Ln 2	Ship Date: 6/4/2018
Description: Glucosamine Sulfate 2KCl LL	Lot #: 509K1804060

	<u>Standard</u>	<u>Result *</u>
<u>Physical Properties</u>		
Appearance	White free flowing powder	Complies
Bulk Density Loose (gm/cc)	>= 0.70 <= 0.95	0.77
Particle size thru # 30 (%)	= 100	100
<u>Analytical</u>		
Assay (Glucosamine Sulfate 2KCl, Dry Basis, %)	>= 98.0 <= 102.0	99.7
Assay (Glucosamine, Dry Basis, %)	>= 58.0	59.4
Identification A	Meets the requirements	Complies
Identification B	Meets the requirements	Complies
Identification C	Meets the requirements	Complies
Identification D	Meets the requirements	Complies
Loss on drying (%)	<= 1.0	0.1
pH	>= 3.0 <= 5.0	4.5
Specific rotation (deg)	>= +47.0 <= +53.0	+51.7
ROI (%)	>= 26.5 <= 31.0	28.1
Sodium Sulfate (%)	>= 15.5 <= 16.5	16.1
Lead (ppm)	<= 0.25	<0.25
Arsenic (ppm)	<= 1	<1
Cadmium (ppm)	<= 0.5	<0.5
Mercury (ppm)	<= 0.2	<0.2
<u>Microbiological</u>		
APC (CFU/gm)	<= 1000	80
Yeast/mold (CFU/gm)	<= 100	20
E. coli (CFU/gm)	Negative	Complies
Salmonella (25 gm)	Negative	Complies
<u>Storage Conditions</u>		
Manufacture date		April 21, 2018
Expiration date		April 21, 2021
Storage		Cool dry place sealed in light resistant container
Manufactured by		Plant # 509
Country of origin		China
Revision #		Rev 6 7/20/2016



Certificate Of Analysis

Customer: The Garmon Corporation

Customer Item #: 81700096

Customer PO #: 40282 Ln 2

Ship Date: 6/4/2018

Description: Glucosamine Sulfate 2KCl LL

Lot #: 509K1804060

Standard

Result *

Approved By:

Date: 6/4/2018

Warren K. Majerus
VP Quality Assurance

* Test results based on information supplied by the manufacturer, unless otherwise noted.

** Based on third party testing lab results.

*** Based on results from Pharmore's sampling protocol.

The information contained in this certificate of analysis is believed to be accurate and is offered in good faith. Pharmore Ingredients, however, cannot assume any guarantee against natural product variations, patent infringement, liabilities or risk involved from the use of this product. Customers' assume all risk and liability with the use of this product.



Advanced Botanical Consulting & Testing, Inc.

1169 Warner Ave. Tustin, CA 92780, Phone: (714) 259-0384 Fax: (714) 259-0385

The Garmon Corporation

27461 Via Industria
Temecula, CA 92590
Tel: (951) 296-6308
Fax: (951) 296-6313

ATTN: Rachel Gayle
PO#: 101018-01/RG

Client Sample ID: Glucosamine Sulfate
Lot#: 81700096
Lab Number: 244390

Received Date: 10/11/2018

Report Date: 10/18/2018

Analyses

Results

Glucosamine Sulfate 2 KCl (HPLC)	100.84 % (d.b.)
Loss on drying (LOD)	0.34%

Method: AOAC, USP<731>

Analyzed by: _____

Chemist

Approved by: _____

Wendi Wang, PhD, President