

**QUARANTINE RELEASE FORM**

99.18

✓ JR

<b>TODAY'S DATE:</b> 07/18/22 Via	<b>QUARANTINE items until all of the below have been satisfied.</b>
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**GENERAL INFORMATION (RECEIVING IDENTIFICATION):**

<b>Item #:</b>	<b>Product Description:</b>	<b>Lot or Batch Number:</b>	<b>Vendor Name:</b>
81700096	Glucosamine Sulfate	071822-04	Pharmore
<b>QTY Received:</b>	<b>Qty Damaged:</b>	<b>Qty Rejected:</b>	<b>Container Inspected by Printed Initials:</b>
40 x 25kg	Zero	Zero	JR 07/18/22
<b>Receipt Log In By: Printed Initials:</b>	JR 07/18/22	<b>PACKING LIST RECEIVED?</b> Yes No N/A	<b>Date sent to QC or Purchasing:</b>
		If no, use Receiving Record	07/18/22

(1) RAW MATERIALS	X	Fill out top part of this sheet only, LINE OUT the bottom part with initials.
(2) PACKING COMPONENTS		
(3) FINISHED GOODS		

(1) PO & Shipment Correct?	Yes	No
(2) CoA, CoC a Match?	Yes	No
If NO, Notify buyer ASAP	Printed Initials:	
Yes No N/A	JR	

**Packing Component Release:**

<b>SHIPMENT PASSED INSPECTION?</b>	Yes	No	N/A	<b>Date:</b> N/A
<b>Release (Green) Sticker By</b> (requires signature): (1)	N/A			N/A
<b>If no, who was notified of Rejection? Or N/A</b>	N/A			

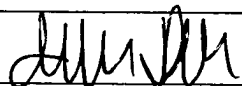
Note: Proceed to the bottom half of this form for RAW MATERIALS OR FINISHED GOODS ITEMS ONLY.

**RAW MATERIAL/ FINISHED GOOD RELEASE:**

<b>Comments or N/A:</b>	CEC, SAL, FTIR, 3rd Party	<b>Print Tags for Each PKG (# of tags):</b>	40
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<b>Mfg. lot previously received?</b>	Yes	No	N/A	<b>Lot #:</b>
1- STANDARD sample	Yes	No	N/A	N/A
2- MICROS TEST sample	Yes	No	N/A	
3- RETENTION sample	Yes	No	N/A	
4- FTIR sample	Yes	No	N/A	
<b>Date / Time to QC:</b>	<b>Printed Initials:</b>		<b>Date:</b>	
7/18/22	JR		7/18/22	

<b>ORGANOLEPTIC / ID</b>	<b>Circle one</b>	<b>Lab Tech Initials:</b>
(1) STANDARD MATCHES SAMPLE?	Yes No	JR
(2) TEXTURE OKAY?	Yes No	JR
(3) SMELL OKAY?	Yes No	JR
(4) FTIR OKAY?	Yes No	JR
<b>SHIPMENT PASSED TESTS?</b>	Yes No	JR
<b>Attachments Needed 1) P.O. or CoA, 2) (QC techs) In-house test results to this form.</b>		

<b>Final Release (Green) Sticker By</b> (Requires signature): (2)		<b>Date:</b> 8/8/22
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<b>Ruminants Statement:</b>		
I have notated the Lot# on the C of A or Guaranteed Analysis and applied a "Ruminants" sticker and have attached the Test Results Form (if both are applicable) and forwarded those documents to the Buying Department.		
<b>Circle one that applies:</b> Yes No N/A	<b>Receivers Initials After Verification:</b> (3) JR	<b>Date:</b> 07/18/22



Lot# 071822-04  
 Certificate of Analysis

Revision 9 (05/28/2019)

Description: Glucosamine Sulfate 2KCl LL ✓

Lot: 509K2203051 ✓

Ship Date: 07/14/2022

Customer PO: 47319 ✓

Customer Item: 81700096 ✓

General Properties	Specification	Test Method	Result ‡
<b>Appearance</b>	White free flowing powder	Visual	Complies
Bulk density loose (gm/cc)	>= 0.70 <= 0.95	Loose fill	0.75
Particle size thru # 30 (%)	= 100	Rotap 5 minutes	100
<b>Analytical</b>			
Assay Glucosamine Sulfate 2KCl (% Dry Basis)	>= 98.0 <= 102.0	USP curr. edit.	99.1
Assay Glucosamine (% Dry Basis)	>= 58.0	By calculation	59.0
Identification A	Meets the requirements	USP curr. edit.	Complies
Identification B	Meets the requirements	USP curr. edit.	Complies
Identification C	Meets the requirements	USP curr. edit.	Complies
Identification D	Meets the requirements	USP curr. edit.	Complies
Loss on drying (%)	<= 1.0	USP curr. edit.	0.1
pH	>= 3.0 <= 5.0	USP curr. edit.	4.3
Specific rotation (deg)	>= +47.0 <= +53.0	USP curr. edit.	+52.1
ROI (%)	>= 26.5 <= 31.0	USP curr. edit.	28.4
Sodium Sulfate (%)	Meets the requirements	USP curr. edit.	Complies
Lead (ppm)	>= 15.5 <= 16.5	USP curr. edit.	15.7
Arsenic (ppm)	<= 0.25	ICP-MS	< 0.25
Cadmium (ppm)	<= 1	ICP-MS	< 1
Mercury (ppm)	<= 0.5	ICP-MS	< 0.5
	<= 0.2	ICP-MS	< 0.2
<b>Microbiological</b>			
APC (CFU/gm)	<= 1000	USP curr. edit.	150
Yeast/mold (CFU/gm)	<= 100	USP curr. edit.	30
E. coli (10 gm)	Negative	USP curr. edit.	Complies
Salmonella (10 gm)	Negative	USP curr. edit.	Complies

**Additional Information**

Manufacture date 03/23/2022  
 Expiration date 03/22/2025  
 Storage condition Cool dry place sealed in light resistant container

Country of origin China

Approved By:

Warren Majerus  
 VP of Quality Assurance

Date: 07/14/2022

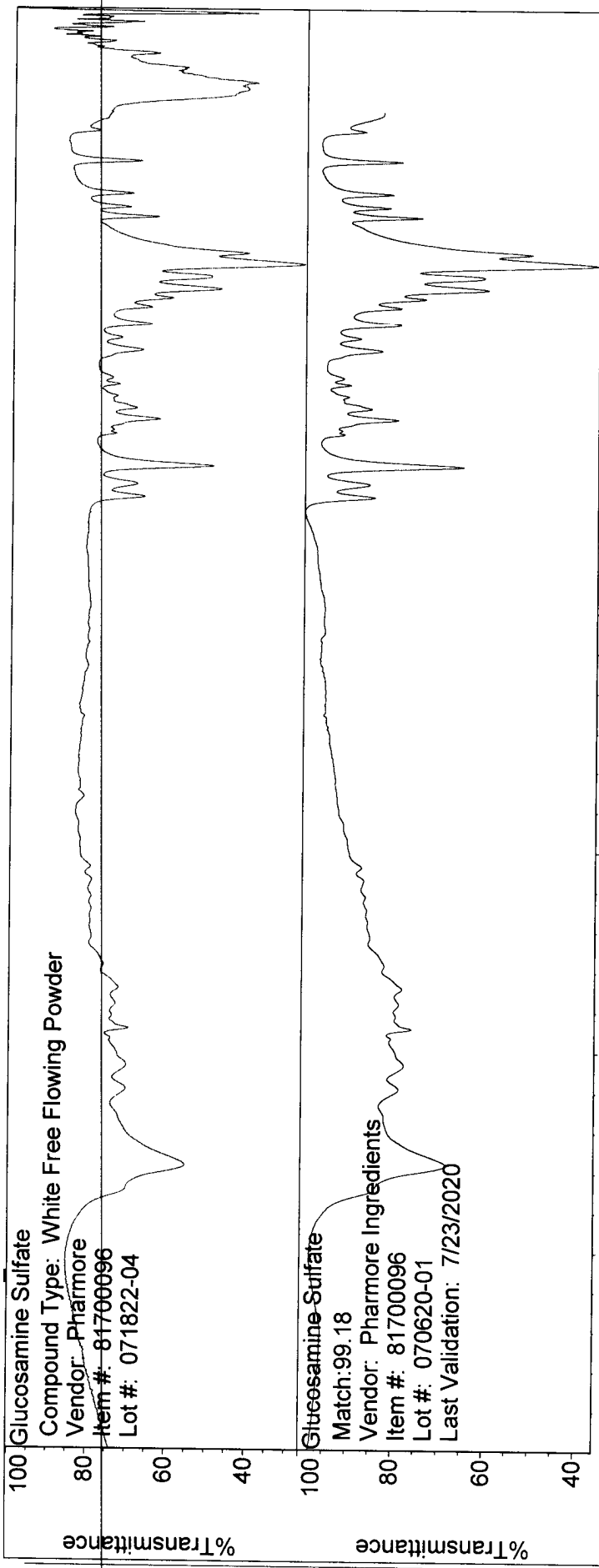
‡ Test results based on information supplied by the manufacturer, unless otherwise noted.

\*\* Based on results from Pharmore's sampling plan.

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

Sales Order: SO27815

# Glucosamine Sulfate



100 Glucosamine Sulfate  
Compound Type: White Free Flowing Powder  
Vendor: Pharmore  
Item #: 81700096  
Lot #: 071822-04

100 Glucosamine Sulfate  
Match: 99.18  
Vendor: Pharmore Ingredients  
Item #: 81700096  
Lot #: 070620-01  
Last Validation: 7/23/2020

Compound Type: White Free Flowing Powder  
Vendor: Pharmore  
Item #: 81700096  
Lot #: 071822-04

Spectrum: Glucosamine Sulfate  
Region: 3995.85-649.89  
Search type: Correlation  
Hit List:

Index	Match	Compound name
311	99.18	Glucosamine Sulfate
504	99.15	Chondroitin ( Porcine )
32	98.51	Glucosamine HCL
168	91.61	Peppermint Leaf Powder
75	37.90	Whey
279	35.84	Deer Velvet Powder
202	35.22	D-Zymes 2201 (Solid Gold)
283	30.55	FD&C Yellow #5
295	30.21	Coconut Glycerine
117	30.15	Glycerin 99.5%

Authorized Lab Tech, Full Name:

*[Signature]*

Date: 7/18/22

Authorized QC Representative:

*[Signature]*

Date: 08/04/22





# Certificate of Analysis

Product: Glucosamine Sulfate (81700096)

Certificate No.: P7136941 Version 1

Lot No: 071822-04

Test / Date / Method	Specification	Results
<b>Assay (dried basis)</b> 2022-08-01 HPLC	98.0-102.0%	98.8%
<b>Identification</b> 2022-08-01 USP	Positive	Positive
<b>Aerobic Plate Count (APC)</b> 2022-07-22 AOAC.	≤1,000 CFU/g	< 10 cfu/g
<b>E. coli.</b> 2022-07-22 AOAC.	Negative	Negative
<b>Salmonella</b> 2022-07-22 AOAC.	Negative	Negative
<b>Yeast &amp; Mold</b> 2022-07-22 AOAC.	≤100 cfu/g	< 10 cfu/g

Issuance Date: 2022-08-03

Approved By:  
N. Abochama, M. Sc.  
QA Director

Requisition: 1139R12559 Received On 2022-07-22 Code No: N/A For Garmon Corp., 2746 Via Industria , Temecula, 92590, Tel: Fax:.

# Certificate of Conformance

Product Name: Glucosamine Sulfate Batch Number: 071822-04  
 Part Number: 81700096 FTIR Test Attached: Pass

Specifications	Organoleptic Test Analysis	Results	Date
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Type of Material	Powders	Pass	7/18/2022
Color	White Free Flowing	Pass	7/18/2022
Clarity	Normal	Pass	7/18/2022
Odor	Normal	Pass	7/18/2022

Analysis	Passing Testing Limits	Testing Methods Millipore-Sigma	Test Result (population detected/ml or g)	Pass/Fail/Retest	Date
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Total Plate Count <i>(changed color)</i>	<1000/g or ml	Simplate/UV Light	N/A	N/A	N/A
Enterobacteriaceae <i>(changed color)</i>	<10/g or ml	Simplate	N/A	N/A	N/A
Yeast and Mold <i>(changed color)</i>	≤100/g or ml	Simplate	N/A	N/A	N/A
E-Coli <i>(glowing)</i>	<10/g or ml	Simplate/UV Light	<10/g	Pass	7/19/2022
Salmonella <i>(immuno-band Present)</i>	Neg. in 25g	1-2 Test	Negative	Pass	7/20/2022

Jimmy Tan 7/20/2022  
 Lab Technician Name Date:

Certificate Final Review by: *Lemica Cellier* 7/20/2022  
 Valid Signature, QC Unit Date: