



18-12142
Certificate Of Analysis

Customer: Platinum Performance

Customer Item #: ZHYAACID

Customer PO #: 20143

Ship Date: 03/07/2018

Description: Sodium Hyaluronate HA

Lot #: 3951709263X

MAR 12 2018 11:42

#05818

Physical Properties

	<u>Standard</u>	<u>Result</u> *
Appearance	White powder	Complies
Bulk Density Loose (gm/cc)	>= 0.15 <= 0.3	0.20
Particle size thru # 80 (%)	>= 90	Complies***

Analytical

Sodium Hyaluronate (Dry basis, %)	>= 93	94
Hyaluronic Acid (Dry basis, %)	>= 88	89
Glucuronic Acid (Dry basis, %)	>= 45	46
Loss on drying (%)	<= 8.0	7.3
pH	>= 6.0 <= 8.0	6.4
Protein (%)	<= 0.1	0.03
Molecular weight (kDA)	>= 1300 <= 1700	1460
Lead (ppm)	<= 0.5	<0.5
Arsenic (ppm)	<= 1.5	<1.5
Cadmium (ppm)	<= 0.5	<0.5
Mercury (ppm)	<= 0.2	<0.2

Microbiological

APC (CFU/gm)	<= 1000	<100
Yeast/mold (CFU/gm)	<= 100	Complies
E. coli (CFU/gm)	Negative	Negative
Salmonella (25 gm)	Negative	Negative

Storage Conditions

Manufacture date	Sep 26, 2017
Expiration date	Sep 26, 2020
Storage	Cool dry place sealed in light resistant container
Manufactured by	Plant # 395
Country of origin	China
Revision #	Rev 9 11/01/2017



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Lot #: 3951709263X

Standard

Result *

Approved By:

A handwritten signature in black ink, appearing to read 'Warren K. Majerus', written over a horizontal line.

Warren K. Majerus
VP Quality Assurance

Date: 3/6/2018

* 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.



SPECIFICATION

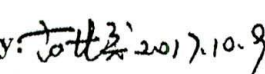
Sodium Hyaluronate HA

	Specification	Test Method
<u>Physical Properties</u>		
Appearance	White powder	Visual
Bulk Density Loose (gm/cc)	≥ 0.15 ≤ 0.3	Loose fill
Particle size thru # 80 (%)	≥ 90	Rotap 5 minutes
<u>Analytical</u>		
Sodium Hyaluronate (Dry basis, %)	≥ 93	By calculation
Hyaluronic Acid (Dry basis, %)	≥ 88	By calculation
Glucuronic Acid (Dry basis, %)	≥ 45	UV-Vis
Loss on drying (%)	≤ 8.0	USP curr. edit.
pH	≥ 6.0 ≤ 8.0	USP curr. edit.
Protein (%)	≤ 0.1	USP curr. edit.
Molecular weight (kDA)	≥ 1300 ≤ 1700	USP curr. edit.
Lead (ppm)	≤ 0.5	ICP-MS
Arsenic (ppm)	≤ 1.5	ICP-MS
Cadmium (ppm)	≤ 0.5	ICP-MS
Mercury (ppm)	≤ 0.2	ICP-MS
<u>Microbiological</u>		
APC (CFU/gm)	≤ 1000	USP curr. edit.
Yeast/mold (CFU/gm)	≤ 100	USP curr. edit.
E. coli (CFU/gm)	Negative	USP curr. edit.
Salmonella (25 gm)	Negative	USP curr. edit.
<u>Storage Conditions</u>		
Storage conditions	Cool dry place sealed in light resistant container	
Shelf life	3 years unopened	
Revision #	Rev 9 11/01/2017	

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**BLOOMAGE FREDA BIOPHARM CO., LTD.**NO.678 TIANCHEN ST.,HIGH-TECH DEVELOPMENT ZONE,
JINAN, CHINA 250101**CERTIFICATE OF ANALYSIS****17-E100912**Product Name: Hyaluronic Acid (Food Grade)
Batch No.: 1709263X
Quantity: 306.458kgStandard: SF/JS ZL-005-F-005
Production Date: Sept.26, 2017
Expiry Date: Sept.26, 2020

Item	Standard	Result
1. Description	White powder	White powder
2. Particle size	100% through a USS sieve # 60 (0.25mm)	Complied
3. pH	6.0~8.0	6.4
4. Transparency	≥99%	99.7%
5. Loss on drying	≤8.0%	7.3%
6. Molecular weight (Dalton)	1.3M~1.8M	1.46M
7. Bulk density		0.20g/cm ³
8. Tapped density		0.35g/cm ³
9. Ash	≤13.0%	10.1%
10. Protein	<0.1%	0.026%
11. Heavy metals	≤20ppm	<20ppm
12. Arsenic	≤1.5ppm	<1.5ppm
13. Lead	≤0.5ppm	<0.5ppm
14. Cadmium	≤0.5ppm	<0.5ppm
15. Mercury	≤0.2ppm	<0.2ppm
16. Glucuronic acid	≥45.0%	45.6%
17. HA	≥93%	94.3%
18. APC	≤100cfu/g	Complied
19. Mold & Yeast	≤100cfu/g	Complied
20. E.Coli	Negative	Negative
21. S.Aureus	Negative	Negative
22. S.Apecies	Negative	Negative

Conclusion: up to the standardReported by: Approved by: 

**MVE****MOUNTAIN VALLEY EXPRESS CO., INC. (MTVL)**P.O. BOX 2569 • Manteca, California 95336
www.mtnvly.com • 800-237-9669**CALIFORNIA'S OVERNIGHT DELIVERY CARRIER**

DATE

PRO LABEL NUMBER

3/07/18



272796634

272796634

CUSTOMER NUMBER	P.O. NUMBER	CUSTOMER NUMBER	B/L NUMBER
318269	19119 LN 6 AND 20143	901276	62764

CONSIGNEE

PLATINUM PERFORMANCE, INC.
90 THOMAS RD
BUELLTON, CA 93427H
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P
E
R
PHARMORE INGREDIENTS
258 E COMMERCIAL RD
C/O DESERT EMPIRE 0
SAN BERNADINO, CA 92408

B53011

DELIVERY TERM

ROUTE

805-688-1731

NO. OF PIECES	H/M	DESCRIPTION OF COMMODITIES	WEIGHT IN POUNDS	RATE	CHARGES
		Email Invoicing is Available Call us now			
3	PLT	54 PCS OF NUTRINITONAL SUPPLEMENTS DIMS: 48X40X50 ***** DO NOT DOUBLE STACK PALLETS ***** CALIFORNIA COMPLIANCE FEE	3180	110.00	330.00
3		-- * TOTALS * -- 20.0% FUEL SURCHARGE FREIGHT CHARGES COLLECT	3180		5.95 335.95 66.00 401.95

CUSTOMER COPY

IF SHIPMENT IS FREIGHT COLLECT THE CONSIGNEE OR AGENT BY SIGNATURE HEREON AGREES TO PAY FREIGHT CHARGES AS SHOWN. IF THERE IS ANY ERROR IN CHARGES, THE CONSIGNEE AGREES THAT THE APPLICABLE TARIFF OR CONTRACT IN EFFECT AND MAINTAINED AT CARRIER'S MAIN OFFICE, WILL APPLY.

DUE CARRIER

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OPLATINUM PERFORMANCE, INC.
90 THOMAS RD
BUELLTON, CA 93427

DUE MTVL

ALL EXCEPTIONS & ADDITIONAL
SERVICES REQUIRED AT TIME
OF DELIVERY MUST BE NOTED
ON CARRIER'S COPYNOW ACCEPTING
VISA & MASTERCARD

CARRIER TERMS - NET 15 DAYS

CUSTOMER NO.

FAILURE TO PAY BILLED CHARGES MAY RESULT IN LIEN ON FUTURE SHIPMENTS.

318269

Delivery Truck and Shipment Condition

Initial RF Date: 3/8/18
 Load Surface Temperature: 60.0 (<110 F Regular <50 F Ref.)
 Shipment Condition: OK NOT OK
 Trailer Condition: CLEAN FILTHY
 Odd or unusual odors? NO YES
 Harmful Chemicals? NO YES
 Termin Infestation? NO YES
 Excessive trash or waste? NO YES
 Notify QA if temperature above spec or any right hand column circled
 QA Notified? NO YES
 Comment: Avocado