Certificate Of Analysis

Description:	**Lot #:**
Chondroitin Sulfate Sodium 90% Dry Basis	803140904

	Standard				**Result** *
Physical Properties					
Appearance		White to off white powder			Complies
Odor		Characteristic			Complies
Bulk Density Loose (gm/cc)	>=	0.48			Complies
Particle size thru # 14 (%)	=	100			100
Particle size thru # 200 (%)	>=	30	<=	60	Complies
Analytical					
Assay (Dry Basis, %)	>=	90.0	<=	105.0	92.5
Loss on drying (%)			<=	10.0	9.4
pH	>=	5.5	<=	7.5	6.5
Protein (%)			<=	6.0	<6.0
Specific rotation (deg)	>=	-20.0	<=	-30.0	-25.7
ROI (%)	>=	20.0	<=	30.0	23.6
Chloride (%)			<=	0.50	<0.50
Sulfate (%)			<=	0.24	<0.24
Heavy Metals (ppm)			<=	20	<20
OVI		Meets the requirements			Complies
Microbiological					
APC (CFU/gm)			<=	1000	<1000
Yeast/mold (CFU/gm)			<=	100	<100
E. coli (CFU/gm)		Negative			Complies
Salmonella (25 gm)		Negative			Complies
Storage Conditions					
Manufacture date					Sept. 04, 2014
Expiration date					Sept. 04, 2016
Storage					Cool dry place sealed in light resistant container
Manufactured by					Plant # 803
Country of origin					China
Revision #					Rev 8 7/8/2014

12569 S 2700 W, Suite 201, Riverton, Utah 84065, USA Tel 801.446.8188 / Fax 801.446.8187

Certificate Of Analysis

Description:	**Lot #:**
Chondroitin Sulfate Sodium 90% Dry Basis	803140904

	Standard	**Result** *

Approved By: Date: 9/22/2015

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.

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ABC Testing

Advanced Botanical Consulting & Testing, Inc.

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

Pharmore Ingredients, Inc.
12569 South 2700 West, Suite 201
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Tel: (801) 446-8188
Fax: (801) 446-8187

ATTN: Melissa Mack
PO#: 5589

Client Sample ID: Chondroitin Sulfate Sodium 90% Dry Basis
Lot#: 803140904
Lab Number: 131016

Received Date: 12/22/2014
Report Date: 12/29/2014

Analyses	Results
Chondroitin Sulfate Sodium (EH-HPLC)	90.61 % (d.b.)
Di-saccharide-4-Sulfate	6. 74%
Di-saccharide-6-Sulfate	21. 89%
Di-saccharide-0-Sulfate	61. 98%
Loss on drying (LOD)	8.99%

Method: ALC150A (JAOAC, 2007), USP37/NF32<731>

Analyzed by: _____ Chemist

Approved by: _____ Wendi Wang, PhD, President