

Address: 925 W 6th St., Fremont, NE 68025 Tel: 402-721-7347 Fax: 415-329-1920

Product Name

Chondroitin Sulfate (Porcine) CS20190731

Batch Number MFG. Date

Jul. 31, 2019

EXP. Date

Jul. 30, 2022

**Country of Origin** 

China

Items of Analysis	Specification	Results
Assay by CPC (dry basis)	≥ 90%	98.45%
Assay by CPC (as is)	Report (as is)	88.6%
Assay by EHPLC (dry basis)	≥ 90%	104.0%
Assay by EHPLC (as is)	Report (as is)	93.7%
Loss on drying	≤ 10%	9.9%
Description	White to off-white powder	Complied
Particle Size	Pass 80 mesh	80 mesh
Limit of Protein	≤ 6.0%	2.23%
Heavy Metals	≤ 10 µg/g	Complied
рН	5.5 – 7.5	6.8
Specific Rotation	-20.0°— -30.0°	-23.5°
Residue on Ignition	20.0% - 30.0%	25.4%
Chloride	≤ 0.5%	Complied
Sulfate	≤ 0.24%	Complied
Total Bacterial Count	≤ 1,000 cfu/g	Complied

Conclusion: This batch of product meets USP41 standard.

ANALYST: GAO PING

CHECKER: LI JIE



Report Number:

2733280-0

Report Date:

24-Dec-2019

Report Status:

Final

## **Certificate of Analysis**

Sample Name:	RW00B38-Chondroitin Sulfate_Porcine	Eurofins Sample:	9103377
Project ID		Receipt Date	13-Dec-2019
PO Number	120467	<b>Receipt Condition</b>	Ambient temperature
Lot Number	00089636_CS20190731	Login Date	13-Dec-2019
Sample Serving Size		Date Started	13-Dec-2019
		Online Order	20
Analysis			Result
Loss on Drying			
Loss On Drying			8.2 %
Determination of C	Chondroitin Sulfate by Enzymatic-UPLC		
Chondroitin disaccharide di-4S sodium salt			70.8 % (on Dry Basis)
Chondroitin disaccharide di-6S sodium salt			15.3 % (on Dry Basis)
Chondroitin disaccharide di-0S sodium salt			4.89 % (on Dry Basis)
Total Chondroitin Disaccharides			91.0 % (on Dry Basis)
Chondroitin Sulfate A (Equivalent to USP Chondroitin Sulfate Reference Standard) Chondroitin Sulfate C (Equivalent to USP Chondroitin Sulfate Reference Standard)			82.0 % (on Dry Basis) 17.8 % (on Dry Basis)
Total Chondroitins (Equivalent to USP Chondroitin Sulfate Reference Standard)			105 % (on Dry Basis)
Method References	•		Testing Location
Determination of Chondroitin Sulfate by Enzymatic-UPLC (OC_CHENZ_S)			Food Integrity Innovation-Brea
AOAC 2015.11 (mo	dified)		
Loss on Drying (OC_LOD_S)		Food Integrity Innovation-Brea	
Testing Location(s)		Released on Behalf of Eurofins by	
Food Integrity Innova	ation-Brea		Robert Grahn - Manager
Eurofins Food Chemis 2951 Saturn Street Unit C Brea CA 92821 800-675-8375	stry Testing US, Inc.		

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except in its entirety, without the written approval of Eurofins.

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These results apply to the sample as received and only to the items tested. This certificate of analysis shall not be reproduced,