

Covance Food Solutions is now Eurofins Food Integrity and Innovation

Certificate of Analysis

Greentech Biochemicals Co., Ltd.

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 B-8E, Jinfu Tower No. 22 Shandong Road
Qingdao Shandong Province China

Sample Name:	Chondroitin Sulfate	Eurofins Sample:	7600274
Project ID	GREENTE_BI-20180821-0008	Receipt Date	20-Aug-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	21-Aug-2018
Description	20180814	Online Order	20

Analysis	Result
Loss on Drying	
Loss On Drying	10.0 %
Content of Chondroitin Sulfate Sodium	
Chondroitin Sulfate	87.2 %
Chondroitin Sulfate	96.9 % (on Dry Basis)
Determination of Chondroitin Sulfate by Enzymatic-UPLC	
Chondroitin disaccharide di-4S sodium salt	55.2 %
Chondroitin disaccharide di-4S sodium salt	61.4 % (on Dry Basis)
Chondroitin disaccharide di-6S sodium salt	12.6 %
Chondroitin disaccharide di-6S sodium salt	13.9 % (on Dry Basis)
Chondroitin disaccharide di-0S sodium salt	5.54 % (on Dry Basis)
Chondroitin disaccharide di-0S sodium salt	4.98 %
Total Chondroitin Disaccharides	72.8 %
Total Chondroitin Disaccharides	80.8 % (on Dry Basis)
Chondroitin Sulfate A (Equivalent to USP Chondroitin Sulfate Reference Standard)	71.6 % (on Dry Basis)
Chondroitin Sulfate A (Equivalent to USP Chondroitin Sulfate Reference Standard)	64.4 %
Chondroitin Sulfate C (Equivalent to USP Chondroitin Sulfate Reference Standard)	14.6 %
Chondroitin Sulfate C (Equivalent to USP Chondroitin Sulfate Reference Standard)	16.3 % (on Dry Basis)
Nonsulfate Chondroitin (Equivalent to USP Chondroitin Sulfate Reference Standard)	5.82 %
Nonsulfate Chondroitin (Equivalent to USP Chondroitin Sulfate Reference Standard)	6.46 % (on Dry Basis)
Total Chondroitins (Equivalent to USP Chondroitin Sulfate Reference Standard)	84.9 %
Total Chondroitins (Equivalent to USP Chondroitin Sulfate Reference Standard)	94.3 % (on Dry Basis)

Method References	Testing Location
Content of Chondroitin Sulfate Sodium (OC_CHON_S)	Food Integrity Innovation-Brea
The United States Pharmacopeia, 40th Revision, USP Convention, Inc.: Rockville, MD (2017).	
Determination of Chondroitin Sulfate by Enzymatic-UPLC (OC_CHENZ_S)	Food Integrity Innovation-Brea
AOAC 2015.11 (modified)	
Loss on Drying (OC_LOD_S)	Food Integrity Innovation-Brea

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Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Brea****Richard Sanders - Manager**

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Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.

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