



ANALYTICAL LABORATORIES IN ANAHEIM, INC.

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Receive Date: 10/31/2016

Report Date: 11/14/2016

Job#: 91190 Sample: Chondroitin Sulfate
Lot#: CS20161006

<u>Analysis</u>	<u>Result (as is)</u>	<u>Result (dry base)</u>
Chondroitin disaccharide Δdi-4S sodium salt	47.4%	
Chondroitin disaccharide Δdi-6S sodium salt	14.4%	
Chondroitin disaccharide Δdi-0S sodium salt	6.95%	
Total Chondroitin disaccharide	68.8%	75.7%
(Equivalent to USP Chondroitin Sulfate Reference Standard)		
Chondroitin Sulfate A	55.7%	
Chondroitin Sulfate C	17.0%	
Nonsulfate chondroitin	8.17%	
Total Chondroitins (Enzymatic HPLC)	80.9%	89.0%
Loss on Dry	9.07%	

Method: ALC150A (Enzymatic-HPLC);

Chondroitin disaccharide di-0S sodium salt, Sigma C3920 010M1203

Chondroitin disaccharide di-4S sodium salt, Sigma C4045 010M1206

Chondroitin disaccharide di-6S sodium salt, Sigma C4170 098K1122

USP Reference Standard: cat# 1133570, lot# R039A0

Dry condition: 105 C for 4 hours.

Chemist:

up/8/2016

Director, David Ji:

11/14/2016