



# ANALYTICAL LABORATORIES IN ANAHEIM, INC.

2951 Saturn Street Unit C, Brea, CA 92821 Ph: (714)524-9988 Fax:(714)524-9926  
Website: <http://www.analytical-lab.com>

AIDP, Inc.

19535 East Walnut Drive South

City of Industry, CA 91748

Tel: (626) 964-6910 Fax: (626) 964-6739

Job#: 82200 Sample: Chondroitin Sulfate

Lot#: GH20151024

Attn: Alfroze Hasan

Receive Date: 12/30/2015

Report Date: 01/11/2016

Analysis	Result (as is)	Result (dry base)
Chondroitin disaccharide Δdi-4S sodium salt	46.9%	
Chondroitin disaccharide Δdi-6S sodium salt	15.5%	
Chondroitin disaccharide Δdi-0S sodium salt	6.69%	
Total Chondroitin disaccharide	69.1%	76.5%
(Equivalent to USP Chondroitin Sulfate Reference Standard)		
Chondroitin Sulfate A	55.1%	
Chondroitin Sulfate C	18.2%	
Nonsulfate chondroitin	7.87%	
<b>Total Chondroitins (Enzymatic HPLC)</b>	<b>81.2%</b>	<b>90.0%</b>
Loss on Dry	9.73%	

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# H1K241

Dry condition: 105 C for 4 hours.

Chemist:

*Jin Bai Cha*  
01/11/2016

Director, David Ji:

*David Ji*  
01/11/2016



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Tel: (626) 964-6910 Fax: (626) 964-6739

Job#: 82201 Sample: Chondroitin Sulfate

Lot#: GH20151025

Attn: Afroze Hasan

Receive Date: 12/30/2015

Report Date: 01/11/2016

Analysis	Result (as is)	Result (dry base)
Chondroitin disaccharide Δdi-4S sodium salt	47.3%	
Chondroitin disaccharide Δdi-6S sodium salt	15.4%	
Chondroitin disaccharide Δdi-0S sodium salt	6.71%	
Total Chondroitin disaccharide	69.4%	76.9%
(Equivalent to USP Chondroitin Sulfate Reference Standard)		
Chondroitin Sulfate A	55.7%	
Chondroitin Sulfate C	18.2%	
Nonsulfate chondroitin	7.90%	
<b>Total Chondroitins (Enzymatic HPLC)</b>	<b>81.8%</b>	<b>90.7%</b>
Loss on Dry	9.78%	

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# H1K241

Dry condition: 105 C for 4 hours.

Chemist:

*Jin-Ha Cha*  
01/11/2016

Director, David Ji:

*David Ji*  
01/11/2016



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Tel: (626) 964-6910 Fax: (626) 964-6739

Job#: 82202 Sample: Chondroitin Sulfate

Lot#: GH20151022

Attn: Alfroze Hasan

Receive Date: 12/30/2015

Report Date: 01/11/2016

Analysis	Result (as is)	Result (dry base)
Chondroitin disaccharide Δdi-4S sodium salt	46.4%	
Chondroitin disaccharide Δdi-6S sodium salt	15.4%	
Chondroitin disaccharide Δdi-0S sodium salt	6.64%	
Total Chondroitin disaccharide	68.4%	75.9%
(Equivalent to USP Chondroitin Sulfate Reference Standard)		
Chondroitin Sulfate A	54.6%	
Chondroitin Sulfate C	18.1%	
Nonsulfate chondroitin	7.81%	
<b>Total Chondroitins (Enzymatic HPLC)</b>	<b>80.5%</b>	<b>89.3%</b>
Loss on Dry	9.83%	

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# H1K241

Dry condition: 105 C for 4 hours.

Chemist:

*Jian Chen* 01/11/2016

Director, David Ji:

*David Ji* 01/11/2016