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## Certificate of Analysis

**Product Name:** Chondroitin Sulfate Sodium  
**Batch #:** CS20161004  
**Product Code:** C1385  
**Manufacture Date:** September 26, 2016  
**Expiration Date:** September 25, 2018  
**Country of Origin:** China

<u>Physical</u>	<u>Specification</u>	<u>Result</u>	<u>Method</u>
Appearance	White to light yellow powder	Conforms	Visual
Specific rotation	-20° ~ -30°	-27.09°	USP
pH	5.5 ~ 7.5	6.8	1 in 100
Clarity and color of solution	< 0.35	0.121	USP
<b><u>Composition</u></b>			
Assay (ODB)			
Chondroitin Sulfate Sodium	> 90.0%	93.12%	CPC
Loss on drying	≤ 10%	9.24%	USP
Residue on ignition	20% ~ 30%	25.70%	USP
Protein	≤ 6.0%	3.22%	USP
Chloride	≤ 0.5%	< 0.5%	USP
<b><u>Safety</u></b>			
Heavy metal	< 20 ppm	< 20 ppm	USP
<b><u>Microbiology</u></b>			
Total plate count	≤ 3,000 cfu/g	< 1,000 cfu/g	AOAC
Yeast and mold	≤ 300 cfu/g	< 100 cfu/g	AOAC
E. coli	Negative	Negative	AOAC
Salmonella	Negative	Negative	AOAC

*Lucy Zhang*

Approved by: Lucy Zhang  
1/6/2017, 5:28 pm

Source: Porcine

This material does not contain milk, egg, fish, crustacean shellfish, tree nuts, peanuts, wheat and soybean.

Storage: keep in tightly sealed container, away from excess heat and light.

This is to confirm that the above COA results are derived from manufacturer's original COA.