

## Certificate of Analysis

<b>Product name</b>	Chondroitn Sulfate	<b>Source</b>	Shark Cartilage
<b>Batch No.</b>	20160105	<b>Batch Quantity</b>	300kg
<b>Assay</b>	≥95% by HPLC on dry basis	<b>Grade</b>	Injection grade
<b>Manufacturing Date</b>	January 05, 2016	<b>Expiry Date</b>	January 05, 2019

Test Items	Specifications	Result
Appearance	Fine White Powder	Fine White Powder
Optical Rotation	(-20°) ~ (-30°)	-26.5°
Assay	≥95%	99.00%
PH (1% H <sub>2</sub> O)	5.5~7.5	6.80
Loss on drying	<10%	7.5%
Protein	≤2.5%	2.1%
Residue on Ignition	20.0%~30.0%	23.0%
Sulphates	≤0.2%	0.15%
Heavy Metals	≤20ppm	<20ppm
Nitrogen	2.5%~3.5%	3.0%
Chloride	≤0.5%	0.3%
Arsenic	<2ppm	<2ppm
Total plate count	<1,00CFU/G	Complies
Yeast & Mold	<10CFU/G	Complies
Endotoxin	<0.5EU/mg	0.3EU/mg
Conclusion	Conform to USP 37 Standard	
Shelf Life	Two Years, Store in a cool, dry location in a tightly sealed container.	

Stanford Chemicals Company

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