



## CERTIFICATE OF ANALYSIS

Product		Sodium Chondroitin Sulphate (100% Bovine)	
CAS No.	9082-07-9	M.F.	(C <sub>14</sub> H <sub>22</sub> NNaO <sub>15</sub> S) <sub>n</sub>
Quantity	500 g	Date of mfg.	Apr 26, 2008
Batch No.	PL080426	Date of issue	Apr 28, 2008

Item	Criteria	Results
1. Appearance	White or Slight Yellow Powder	Conforms
2. Identification	Sodium Positive	Positive
	IR Spectrum	Conforms
3. Clarity & Color of Solution	Absorbance ≤ 0.35	0.15
4. Assay (HPLC)	95.0% to 105.0% (on dry basis)	98.3%
5. Specific Rotation	-20° to -30°	-28°
6. Loss on Drying	≤ 12%	9.7%
7. Residue on Ignition	≤ 20-30%	23.5%
8. Limit of Protein	≤ 3.0%	Conforms
9. Chloride	≤ 0.5%	Conforms
10. Sulfate	≤ 0.24%	Conforms
11. Heavy Metals	≤ 20 ppm	Conforms
12. Arsenic	≤ 2 ppm	Conforms
13. pH	5.5 to 7.5	6.8
14. Total Bacterial Count	< 1000 cfu/g	Conforms
15. Yeast & Mold	< 100 cfu/g	Conforms
16. Salmonella Species & E.Coli	Negative	Negative
17. Particle Size	60-100 mesh	Conforms
<b>Conclusion</b>	In accordance with <b>European Pharmacopoeia 2007</b>	

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