

**ACROSS BIOTECH**

MAKE A DIFFERENCE

Certificate of Analysis

Product name:	Chondroitin Sulfate Sodium	Batch No.:	CSS231108
Report No.	CSS231108-23	Quantity:	1.3kg
MFG Date:	2023/11/08	Test Date	2023.11.23
Report Date	2024.02.26	Retest Date	2025.11.09
Items	Specifications	Results	
Characters	White or almost white powder	White powder	
Identification			
A. Infrared absorption	Complies with Ph.Eur reference spectrum of chondroitin sulfate sodium(marine) CRS	Comply	
B. Reaction(b) of sodium	Positive	Positive	
Specific rotation	-12~-19(on the dried substance)	-15.9	
pH	5.5~7.5	6.0	
Appearance of solution	$A_{420nm} \leq 0.35$	0.08	
Related substances	Any secondary band in the electropherogram obtained with the test solution is not more intense than the band in the electropherogram obtained with reference solution (b) ($\leq 2\%$)	< 2%	
Protein	$\leq 0.1\%$ (on the dried substance)	< 0.1%	
Chlorides	$\leq 0.1\%$	< 0.1%	
Sulfates	$\leq 0.24\%$	< 0.24%	
Loss on drying	$\leq 12.0\%$	9.8%	
Residue on ignition	20.0% ~30.0%(on the dried substance)	28.4%	
Heavy metals	< 20 ppm	< 20 ppm	
Assay	$\geq 98.0\%$ (on the dried substance)	107.1%	
Residual solvents (ethanol)	$\leq 0.5\%$	0.1%	
Total aerobic microbial count	≤ 100 cfu/g	< 10 cfu/g	
Total combined yeasts /mould count	≤ 20 cfu/g	< 10 cfu/g	
Escherichia Coli	Absent/g	Absent/g	
Salmonella	Absent/10g	Absent/10g	
Bacterial endotoxins	< 0.05 EU/mg	< 0.05 EU/mg	
Conclusion:	The product complies with in-house standard(STP01182/01)		

