COSMO BIO CO., LTD.
Inspiration for Life Science

Certification of Analysis

Product Name: Sodium Chondroitin Sulfate E (Squid Cartilage)
Code Number: CSR-NaCS-E2(SqC)3
Lot Number: 17G435
Size: 3mg
Date: 2017/08/10
Remark: Specifications are to be modified without notice.

		Result	Specification	Method
Appearance		white amorphous block or powder (lyophilizate)	white amorphous block or powder (lyophilizate)	—
Actual Content		2.9 mg	2.7 – 3.3 mg	1)
Mw measured by HPLC		56×10^3 dalton	—	2)
Purity on Electrophoresis		no bands other than the principal band appears	no bands other than the principal band appears	3)
Composition of disaccharide unit	⊿Di-0S	4.9 %	—	4)
	⊿Di-6S	12.0 %	—	
	⊿Di-4S	23.3 %	—	
	⊿Di-diS_D	0.0 %	—	
	⊿Di-diS_B	0.0 %		
	⊿Di-diS_E	59.8 %	>50.0 %	
	⊿Di-TriS	0.0 %	—	

Mw : Molecular Weight

⊿Di-0S : 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-D-galactose
⊿Di-6S : 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-6-O-sulfo-D-galactose
⊿Di-4S : 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-4-O-sulfo-D-galactose
⊿Di-diS_D : 2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -D-gluco-4-enepyranosyluronic acid)-6-O-sulfo-D-galactose
⊿Di-diS_B : 2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -D-gluco-4-enepyranosyluronic acid)-4-O-sulfo-D-galactose
⊿Di-diS_E : 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-4,6-di-O-sulfo- D-galactose
⊿Di-TriS : 2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -D-gluco-4-enepyranosyluronic acid)-4,6-di-O-sulfo-D-galactose

NOTICE: For R&D use only. Do not use for drug, household, cosmetically and others.

1) Bitter, T., et al.: Anal. Biochem., 4, 330 (1962)
2) TOSOH: TOSOH Separation Report, 38, 11
3) Seno, N., et al.: Anal. Biochem., 37, 197 (1970)
4) Yoshida, K., et al.: Anal. Biochem., 177, 327 (1989)

Signature :

Satoshi Miyauchi

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