COSMO BIO CO., LTD.
Inspiration for Life Science

Certificate of Analysis

Product Name: Sodium Chondroitin (Squid Skin)
Code Number (Outside Japan): CSR-NaCH-02(SqS)1
Code Number (Japan): NaCH-02(SqS)1
Lot Number: 20J614
Labeled Content: 1 mg/vial
Date: 2020/11/11
Remark: Specifications are to be modified without notice.

		Result	Specification	Method
Appearance		white amorphous block or powder (lyophilizate)	white amorphous block or powder (lyophilizate)	—
Content		1.1 mg/mL	0.9－1.2 mg	1)
Mw by GPC		30×10^3	—	—
Purity on Electrophoresis		no bands other than the principal band appears	no bands other than the principal band appears	2)
Hyaluronan*		not detected	not detected	—
Composition ratio of disaccharide unit*	⊿Di-0S	97.7%	≧90.0%	3)
	⊿Di-6S	0.7%	—	
	⊿Di-4S	1.6%	—	
	⊿Di-diS_D	0.0%	—	
	⊿Di-diS_B	0.0%	—	
	⊿Di-diS_E	0.0%	—	
	⊿Di-TriS	0.0%	—	

Mw: Molecular Weight, GPC: Gel Permeation Chromatography
*: Data of the bulk substance (Lot: 200916)

⊿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

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

Signature :



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