



Certificate of Analysis

Product Name: Biotin-Labeled Sodium Dermatan Sulfate (Porcine Skin)

Code Number (Outside Japan): CSR-BHDS-B2(PgS)3

Code Number (Japan): BHDS-B2(PgS)3

Lot Number: 17C394

Labeled Content: 3 mg/vial

Date: 2017/04/28

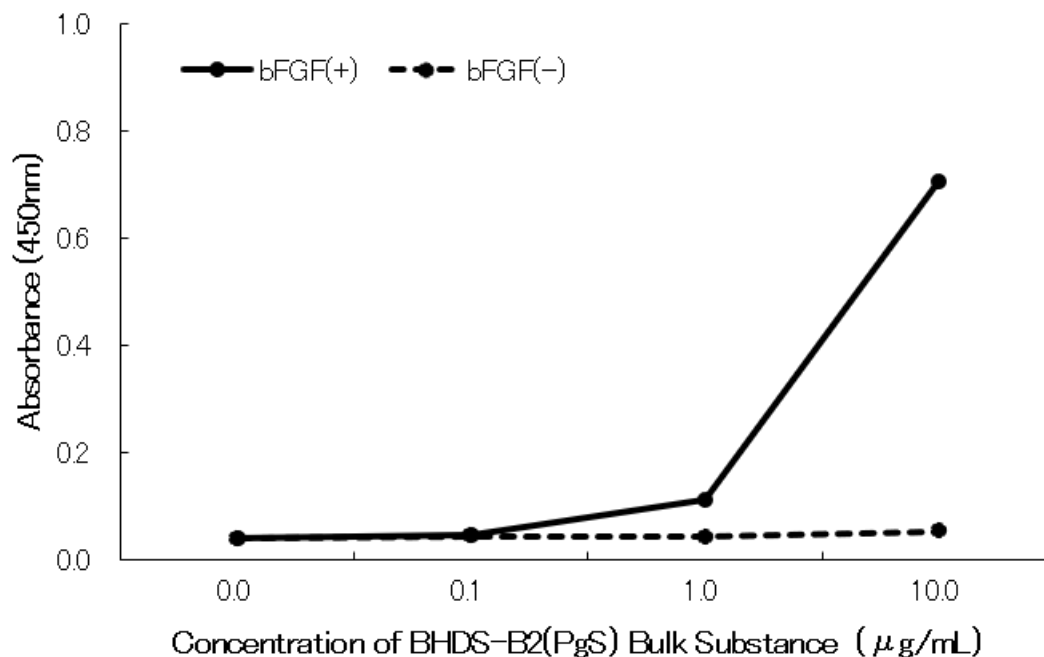
Remark: Specifications are to be modified without notice.

	Result	Specification	Method
Appearance	white amorphous block or powder (lyophilizate)	white amorphous block or powder (lyophilizate)	—
Content	3.0 mg/vial	2.7—3.6 mg/vial	1)
Mw by GPC	22×10^3	—	—
Degree of Substitution*	6%	2—12%	2)
Purity on Electrophoresis	no bands other than the principal band appears	no bands other than the principal band appears	3)
Binding Ability to Avidin and bFGF**	pass (see the figure on the back)	pass	—

Mw: Molecular Weight, GPC: Gel Permeation Chromatography, bFGF : basic fibroblast growth factor

*: Degree of Substitution was expressed as the molar percentage of bound Biotin groups to disaccharide units.

**: Data of the bulk substance (Lot: 170330)



After immobilizing bFGF (10 $\mu\text{g/mL}$, 50 $\mu\text{L/well}$) onto the microwell plate, the solution of BHDS-B2(PgS) was added to each well. Subsequently, avidin-labeled peroxidase was applied, followed by color development using TMB (3,3',5,5'-tetramethylbenzidine) as the substrate. The absorbance at 450 nm was then measured.

- 1) Bitter, T., et al.: Anal. Biochem., 4, 330 (1962)
- 2) Green, N. M.: Biochem. J., 94, 23c (1965)
- 3) Seno, N., et al.: Anal. Biochem., 37, 197 (1970)

Signature :

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