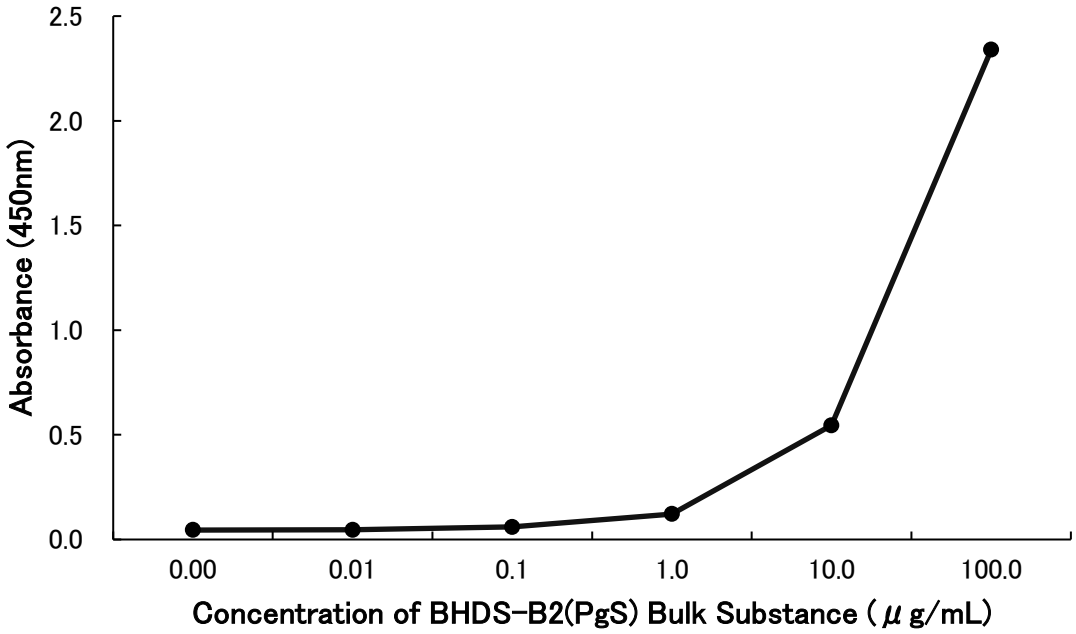
COSMO BIO CO., LTD.
Inspiration for Life Science

Certificate of Analysis

Product Name: Biotin-Labeled Sodium Dermatan Sulfate (Porcine Skin)
Code Number (Outside Japan): CSR-BHDS-B2(PgS)1
Code Number (Japan): BHDS-B2(PgS)1
Lot Number: 25K992
Labeled Content: 1 mg/vial
Date: 2025/12/11
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/vial	0.8－1.2 mg/vial	1)
Mw by GPC	16×10^3	—	—
Degree of Substitution*	5%	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: 251126.



After immobilizing bFGF (10 μg/mL, 50 μL/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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