



Biotin-Labeled Sodium Dermatan Sulfate

(Porcine Skin)

Product Code (Outside Japan): CSR-BHDS-B2(PgS)1, CSR-BHDS-B2(PgS)3

Product Code (Japan): BHDS-B2(PgS)1, BHDS-B2(PgS)3

Labeled Content: 1 mg/vial (BHDS-B2(PgS)1), 3 mg/vial (BHDS-B2(PgS)3)

Appearance: white amorphous block or powder (lyophilizate)

Source of Sodium Dermatan Sulfate: Porcine Skin

Biotin Probe: Biotin Hydrazide

CAS number of Biotin Probe: 66640-86-6

Overview: Dermatan sulfate (DS) is a sulfated glycosaminoglycan composed of repeating disaccharide units of N-acetyl-D-galactosamine (GalNAc) and D-glucuronic acid (GlcUA) or L-iduronic acid (IdoUA). DS is abundant in skin, where it exists as unbranched polysaccharide chains covalently linked to the core proteins of proteoglycans.

The Biotin-Labeled Sodium Dermatan Sulfate (BHDS) in this product is prepared by forming an amide bond between the biotin hydrazide and the carboxyl group of GlcUA or IdoUA within DS¹⁾. The raw material DS contains at least 80% of disaccharide units bearing 4-O-sulfation of GalNAc.

Each vial contains 1 mg (BHDS-B2(PgS)1) or 3 mg (BHDS-B2(PgS)3) of lyophilized BHDS. The binding ability with avidin and basic Fibroblast Growth Factor (bFGF) has been confirmed. The attached Certificate of Analysis provides the actual measured values for each product specification.

Handling precautions:

- 1) The interior of the vial is depressurized. Please take care when opening the vial.
- 2) This product is hygroscopic. Store at 8°C or below, protected from moisture.
- 3) After reconstitution, store the solution at -20 °C or below. Preparing aliquots suitable for anticipated use is recommended.
- 4) This product is for research use only. It is not intended for use in diagnostic or therapeutic procedures.

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

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