



## Unsaturated Chondro-Disaccharide: Assortment

Code#: DDI-ASS

Product Name: Unsaturated Chondro-Disaccharide: Assortment

Labeled Amount: 500nmol/vial (lyophilized)

△Di-0S :

Other Name: 2-acetamido-2-deoxy-3-O-(β-D-glucopyranosyluronic acid)-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{20}NNaO_{11}$

Formula Weight of Sodium Salt: 401.3

△Di-4S :

Other Name: 2-acetamido-2-deoxy-3-O-(β-D-glucopyranosyluronic acid)-4-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{19}NNa_2O_{14}S$

Formula Weight of Sodium Salt: 503.3

△Di-6S :

Other Name: 2-acetamido-2-deoxy-3-O-(β-D-glucopyranosyluronic acid)-6-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{19}NNa_2O_{14}S$

Formula Weight of Sodium Salt: 503.3

△Di-diS<sub>B</sub> :

Other Name: 2-acetamido-2-deoxy-3-O-(2-O-sulfo-β-D-glucopyranosyluronic acid)-4-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{18}NNa_3O_{17}S_2$

Formula Weight of Sodium Salt: 605.3

△Di-diS<sub>D</sub> :

Other Name: 2-acetamido-2-deoxy-3-O-(2-O-sulfo-β-D-glucopyranosyluronic acid)-6-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{18}NNa_3O_{17}S_2$

Formula Weight of Sodium Salt: 605.3

△Di-diS<sub>E</sub> :

Other Name: 2-acetamido-2-deoxy-3-O-(β-D-glucopyranosyluronic acid)-4,6-di-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{18}NNa_3O_{17}S_2$

Formula Weight of Sodium Salt: 605.3

△Di-TriS :

Other Name: 2-acetamido-2-deoxy-3-O-(2-O-sulfo-β-D-glucopyranosyluronic acid)-4,6-di-O-sulfo-D-galactose

Molecular Formula of Sodium Salt:  $C_{14}H_{17}NNa_4O_{20}S_3$

Formula Weight of Sodium Salt: 707.4

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



These products are made from chondroitin sulfate (CS) or dermatan sulfate (DS) polymer by digestion with Chondroitinase ABC (CAS: 9024-13-9) or Chondroitinase AC-II (CAS: 9047-57-8), and purified by the column chromatography. These products have a double bond (unsaturated bond) between C-4 and C-5 position of uronic acid at the non-reducing end, and “ $\Delta$  (delta)” means the unsaturated bond. These products are useful as standards for a constituent analysis of CS and DS using a HPLC after the digestion with Chondroitinase derived from bacteria<sup>1)</sup>. The enclosed Certification of Analysis lists actual content and purity for product specifications.

Handling precautions:

1. Store protected from light at **-20°C** or below **avoiding humidity**.
2. Please **precipitate** the lyophilizate to the bottom of the vial by flash- centrifugation **before opening** of the vial.
3. We recommend freeze-preserving in aliquots appropriate for anticipated usage after dissolving with 0.5mL of an appropriate solvent. The vial capacity is for **0.5mL**.
4. Preservation stability varies with pH of the solution and is lower under alkaline conditions (**over pH 8**). **Note the pH** of the solvent when dissolving this product.
5. This product is not sterilized, please use filter (ex. 0.22  $\mu$  m) as you need.

Reference:

- 1) Yoshida K, et al.: Anal Biochem, **177**, 327 (1989)