



Fluoresceinamine-labeled Sodium Chondroitin Sulfate E (Squid Cartilage)

Product code: CSR-FACS-E1

Volume: 3 mL (1 mg/mL, in phosphate buffered saline (PBS) (—))

Appearance: yellow green solution

Source of sodium chondroitin sulfate E: Squid Cartilage

CAS number of sodium chondroitin sulfate: 12678-07-8

Fluorescent probe: Fluoresceinamine

CAS number of fluorescent probe: 3326-34-9

Outline: Chondroitin sulfate (CS) is a sulfated glycosaminoglycan composed of repeating disaccharide units of N-acetyl-D-galactosamine (GalNAc) and D-glucuronic acid (GlcUA). CS is abundant in cartilage and exists as unbranched polysaccharide chains covalently linked to the protein core of proteoglycans. Chondroitin sulfate E (CS-E) contains approximately 60 % of disaccharide units with two sulfate groups as 4-O- and 6-O-sulfation of GalNAc (E structure unit). This product is prepared by the fluorescent labeling of CS-E derived from squid cartilage according to the method of Ogamo et al.¹⁾. Fluoresceinamine molecules are chemically attached to carboxyl groups of the GlcUA of CS. The endotoxin content is in accordance with the product specifications. The excitation wavelength is 490~500 nm and the emission wavelength is 515~525 nm. The enclosed Certification of Analysis lists actual values for product specifications.

Handling precautions:

- 1) Protect from light as much as possible. Product can be used at room temperature when protected from strong light.
- 2) After thawing, gently agitate the vial before use.
- 3) Store protected from light at -20°C or below. We recommend storing in aliquots appropriate for anticipated usage.
- 4) Fluorescence intensity varies with pH of the solution and is lower under acidic conditions. Note the pH of the sample solution when measuring fluorescence intensity.
- 5) This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Reference:

- 1) Ogamo A et al.: Carbohydr. Res., **105**, 69 (1982)

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