Creative Enzymes®

Native Flavobacterium heparinum Chondroitinase B

Cat. No. NATE-1950

Lot. No. (See product label)

Introduction

Description	Chondroitinase B cleaves, via an elimination mechanism, polysaccharide chains containing 1-4 linkages between hexosamines and iduronic acid residues in dermatan sulfate (chondroitin B).The reaction yields oligosaccharide products (mainly disaccharides) containing unsaturated uronic acids which can be detected by UV spectroscopy at 232 nm.
Applications	Research reagent (glycobiology, preparation of oligosaccharide libraries from dermatan sulfate). Determination of contents of chondrotin sulfates by HPLC.
Synonyms	Chondroitinase B; EC 4.2.2.19; chondroitin B lyase; ChonB; ChnB

Product Information

Source	Flavobacterium heparinum
EC Number	EC 4.2.2.19
CAS No.	52227-83-5
Molecular Weight	55 kDa
Activity	>200 IU/mg (substrate: dermatan sulfate)
Isoelectric point	9.4-9.6
pH Stability	5.0-10.0
Optimum pH	7.0-8.0
Optimum temperature	20°C – 37°C
Specificity	Dermatan sulfate (chondroitin sulfate B).
Unit Definition	One international unit (IU) of chondroitinase B is defined as the amount of enzyme that will liberate 1.0 μmole unsaturated oligosaccharides from dermatan sulfate per minute at 30 °C and pH 8.0.

Storage and Shipping Information

Stability	12 months frozen at -20°C in aqueous buffers containing sodium phosphate and sucrose 5%.