Creative Enzymes®

# Native Flavobacterium heparinum Chondroitinase B

*Cat. No. NATE-1950*

*Lot. No.* (See product label)

## Introduction

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| ***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

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| ***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

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