

## Chondroitinase ABC from *Proteus vulgaris*, Recombinant

Cat. No. NATE-1949

Lot. No. (See product label)

### Introduction

**Description** Chondroitinase ABC cleaves, via an elimination mechanism, sulfated and non-sulfated polysaccharide chains containing 1-4 linkages between hexosamines and glucuronic acid residues. The reaction yields oligosaccharide products (mainly disaccharides) containing unsaturated uronic acids which can be detected by UV spectroscopy at 232 nm. The enzyme is active on chondroitin sulfates A and C, chondroitin sulfates B (dermatan sulfate), chondroitin and hyaluronic acid.

**Applications** Determination of contents of chondroitin sulfates by HPLC Processing animal tissues before further investigations Preparation of chondroitin and hyaluronic acid derived unsaturated disaccharides Preparation of hyaluronic acid derived unsaturated disaccharide

**Synonyms** EC 4.2.2.4, chondroitinase; chondroitin ABC eliminase; chondroitinase ABC; chondroitin ABC lyase; chondroitin sulfate ABC lyase; ChS ABC lyase; chondroitin sulfate ABC endoeliminase; chondroitin sulfate ABC endolyase; ChS ABC lyase I; 9024-13-9

### Product Information

**Species** *Proteus vulgaris*

**Source** *E. coli*

**EC Number** EC 4.2.2.20

**CAS No.** 9024-13-9

**Molecular Weight** 117.3 kDa

**Activity** > 100 IU/mg (substrate: chondroitin sulfate A).

**Optimum pH** 8

**Optimum temperature** 37 °C

**Specificity** Chondroitin sulfates A and C, chondroitin sulfates B (dermatan sulfate), chondroitin and hyaluronic acid.

**Unit Definition** One international unit (IU) of chondroitinase ABC is defined as the amount of enzyme that will liberate 1.0 µmole unsaturated oligosaccharides from chondroitin sulfates A per minute at 30 °C and pH 8.0.

### Storage and Shipping Information

**Stability** Expiration is at least 12 months from manufacturing date, kept at -20 °C.