

## Native *Flavobacterium heparinum* Chondroitinase AC

Cat. No. NATE-0126

Lot. No. (See product label)

### Introduction

**Description** Chondroitinase AC from *Flavobacterium heparinum* is an enzyme that cleaves sulfated and non-sulfated polysaccharide chains with (1-4) linkages between hexosamines and glucuronic acid residues, by an elimination mechanism. The resulting oligosaccharide products are mainly disaccharides with unsaturated uronic acids. Chondroitinase AC specifically degrades chondroitin sulfates A and C, but not chondroitin sulfate B (dermatan sulfate).

**Applications** Chondroitinase AC from Creative Enzymes has been used for the large scale preparation of glycosaminoglycan (GAG) fractions during the study of structural and sequence motifs in dermatan sulfate.

**Synonyms** EC 4.2.2.5; 9047-57-8; chondroitin AC lyase; chondroitinase; chondroitin sulfate lyase; chondroitin AC eliminase; chondroitin AC lyase; chondroitinase AC; ChnAC

### Product Information

**Source** *Flavobacterium heparinum*

**Form** lyophilized powder.

**EC Number** EC 4.2.2.5

**CAS No.** 9047-57-8

**Activity** 0.5-1.5 units/mg solid (using chondroitin sulfate A as substrate, also cleaves chondroitin sulfate C)

**Buffer** 0.02 M phosphate buffer: soluble (pH 7.0)

**Unit Definition** One unit will cause a  $\Delta A_{232}$  of 1.0 per minute due to the release of unsaturated disaccharide from chondroitin sulfate A at pH 7.3 at 37°C. Reaction volume: 3.1 ml (light path 1 cm).

### Storage and Shipping Information

**Storage** -20°C