

## Native *Flavobacterium heparinum* Heparinase I and III Blend

Cat. No. NATE-0337

Lot. No. (See product label)

### Introduction

**Description** Heparin-degrading lyase that recognizes heparin sulfate proteoglycan as its primary substrate. Heparinase I and III plays vital role in various biological processes: modulate cell-growth factor interactions, cell-lipoprotein interactions, neovascularization. It cleaves highly sulphated polysaccharide chains in presence of 2-O-sulfated  $\alpha$ -L-idopyranosyluronic acid and  $\beta$ -D-glucopyranosyluronic acid residues of polysaccharides.

**Applications** Heparinase I and III may be used for the study of heparin production during fermentation and specific activity of heparinase.

**Synonyms** Heparinase; Heparin lyase; Heparin eliminase; Heparin-sulfate lyase; Heparin-sulfate eliminase; Heparitin-sulfate lyase; Heparinase I; Heparinase III

### Product Information

**Source** *Flavobacterium heparinum*

**Unit Definition** One unit will form 0.1 micromole of unsaturated uronic acid per hour at 7.5 at 25 degrees C using Heparin, Sodium as substrate for heparinase I. One unit will form 0.1 micromole of unsaturated uronic acid per hour at 7.5 at 25 degrees C using bovine kidney Heparan, Sulfate as substrate for heparinase III.

### Storage and Shipping Information

**Storage**  $-20^{\circ}\text{C}$