Creative Enzymes®

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 α-L-idopyranosyluronic acid and β-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 heparinise.

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°C