



Product Information

Heparinase III from *Flavobacterium heparinum*

Product Number **H 8891**
Storage Temperature -0 °C

Product Description

pI: 7.9¹

Heparinase is an enzyme used for degradation of various heparin substrates. The three forms of heparinase (I, II, and III) (Product No. H 2519, H 6512, and H 8891, respectively) have varying substrate specificities.^{2,3,4}

The definition of an International Unit (IU) of heparinase is as follows: One International Unit will form 1 μmole of unsaturated uronic acid per minute. Sigma units are defined as the amount of enzyme that will form 0.1 μmole of unsaturated uronic acid per hour. Based on this information, one IU is equal to 600 Sigma units, despite the slight difference in assay temperatures.

The optimal pH for enzyme activity is 7.0. Various metal ions have been shown to activate and inhibit the enzyme. Ca²⁺ has been shown to activate heparinase and Cu²⁺, Hg²⁺, and Zn²⁺ appear to inhibit the enzyme.^{5,6,7,8}

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This enzyme can be reconstituted in 20 mM Tris-HCl, pH 7.5, containing 0.1mg/ml BSA and 4 mM CaCl₂.

Storage/Stability

The enzyme solution at pH 6-7 is stable for a week at -20 °C.

References

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