

## Native Staph aureus V8 Protease (Endoproteinase Glu-C)

Cat. No. NATE-0730

Lot. No. (See product label)

## Introduction

**Description** Protease S. aureus V8 (Endoproteinase-Glu-C) specifically cleaves peptide bonds on the COOH-terminal

side of either aspartic or glutamic acids. In the presence of ammonium, the enzyme specificity is limited to glutamic sites. It has a molecular weight of 27 kDa daltons and optimum pH's of 4.0 and 7.8 with hemoglobin as the substrate. Protease S. aureus V8 is inhibited by diisopropylfluorophosphate and monovalent anions such as F-, Cl-, CH3COO-and NO3. Enzyme activity is determined by the casein

digestion assay described by Drapeau.

**Synonyms** EC 3.4.21.19; Staph aureus V8 Protease; Protease, Staph aureus (Endoproteinase Glu-C); Glutamyl

endopeptidase; V8 proteinase, endoproteinase Glu-C; staphylococcal serine proteinase

## **Product Information**

**Source** Staph aureus V8

**Form** Lyophilized powder

**EC Number** EC 3.4.21.19

**CAS No.** 137010-42-5

Molecular

27 kDa (Drapeau 1978).

Weight

**Purity** Chromatographically purified

**Activity** > 500 units per mg dry weight

Optimum

4.0 and 7.8 with hemoglobin substrate. (Drapeau et al. 1972).

рΗ

Inhibitors Diisopropyl fluorophosphate (DFP) and monovalent anions such as F-, Cl-, Br-, CH3COO-, and NO3-

(Houmard 1976).

Unit

One Unit causes a change of 0.001 A280 nm per minute at 37°C, pH 7.8 using casein as the substrate.

1/1

Definition

## Storage and Shipping Information

**Storage** Store at 2-8°C

**Stability** Autolysis occurs at temperatures > 40°C. The enzyme is fully active in USP 0.2% SDS. Stable for 12

months at 2-8°C.

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