

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 Weight 27 kDa (Drapeau 1978).

Purity Chromatographically purified

Activity > 500 units per mg dry weight

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

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

CH3COO-, and NO3-(Houmard 1976).

Unit Definition One Unit causes a change of 0.001 A280 nm per minute at 37°C, pH 7.8 using

casein as the substrate.

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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