

PRODUCT DATA SHEET

Staphylococcus Aureus Protease**Product Number:** 20195**Lot Number:** 79435825

Product Description: Staphylococcus aureas protease from V8. EC 3.4.21.19. Also known as Endoproteinase Glu-C. This enzyme will specifically hydrolyze at the carboxyl side of glutamic acid and aspartic acid residues.

Form: Lyophilized powder**Size:** 5 mg**Enzyme Activity:** 1,020 U/mg dry weight

Unit Definition: One unit is defined as the amount of protein required to produce a change of 0.001 absorbance units at 280 nm per minute at 37°C, pH 7.8 using casein as the substrate.

Protein Assay: The absorbance of a 1 mg/ml solution at 280 nm is 0.73

Molecular Weight: 27,700

Inhibitor: Diisopropyl fluorophosphate; monovalent anions such as F⁻, Cl⁻, H₃COO⁻, and NO₃⁻. Autolysis occurs above 40°C. The enzyme is active in 0.2% SDS.

Optimum pH: 4.0 and 7.8**Storage:** Store at 2 - 8°C.**Suggested Expiration:** One year from date of product receipt.**References:**

1. Drapeau, G.R.; et al. J. Biol. Chem., 1972, 247, 6720.
2. Houmard, J.; Drapeau, G.R. Proc. Natl. Acad. Sci., 1972, 69, 3506.

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Pierce Biotechnology

(800) 874-3723 tel

(815) 968-7316 fax

3747 N. Meridian Road
Rockford, IL 61101 USA

(815) 968-0747 tel

www.thermoscientific.com/pierce