

Dear Researcher;

Please find enclosed your order

The statistics on the sample(s) are as follows :

| <u>PPE</u> | | Porcine Pancreatic Elastase |
|-------------------|----|-----------------------------|
| Lot # | -- | Sample |
| MW | -- | 25,500 |
| Activity | -- | 135 U/mg |
| Aliquots | -- | 1 x 10 mg |
| Storage | -- | 4C |

SOURCE: Porcine Pancreas.

SPECIFICATIONS:

Chromatographically purified, lyophilized, salt-free, water soluble powder. Store at 5°C. Stable 9-12 months with no decrease in activity. 115-125 units per mg of protein on the substrate elastin orcein. One unit will solubilize 1 mg of elastin in 20 minutes at pH 8.8 and 37°C. Greater than 9 units per mg of protein on the substrate Suc-Ala-Ala-Ala-pNA. One unit will hydrolyze 1 μ mole of substrate per minute at pH 8.3 and 25°C. Free of trypsin, chymotrypsin, lipase, α -amylase and the carboxypeptidases.

PREPARATION: High purity elastase is isolated from 2X crystallized elastase. The 2X elastase is chromatographed on DEAE-cellulose at pH 8.8 to remove anionic non-specific protein. The elastolytic effluent is chromatographed at pH 5.0 on CM-cellulose recovering the highest specific activity by elution with salt gradient. Trace trypsin and chymotrypsin contamination is removed by affinity chromatography.

PURITY: The high purity elastase is homogenous on 15% polyacrylamide electrophoresis at pH 4.5 and on gel exclusion chromatography (G200) at pH 5.0 and 25°C.

FREE OF TRYPSIN: Trypsin not detected on 0.5 mg elastase after more than 24 hour incubation at 25°C on the substrate N-benzoyl-DL-arginine-pNA (BAPNA).

FREE OF CHYMOTRYPSIN: α -chymotrypsin not detected on 0.5 mg elastase after more than 24 hour incubation at 25°C on the substrate N-benzoyl-L-tyrosine ethyl ester (BTEE).