

Native Pig Pancreatic Elastase

Catalog No.	CRP262B	Quantity:	10 mg
	CRP262C		20 mg

Description: Native Pig Pancreatic Elastase

Source: Pig pancreas

Molecular Weight: 25.5 kDa

Formulation: Lyophilized from a salt free buffer. Free of trypsin, chymotrypsin, lipase, alpha-amylase, and the carboxypeptidases. This 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: Homogenous on 15% polyacrylamide electrophoresis at pH 4.5 and on gel exclusion chromatography (G200) at pH 5.0 and 25°C. 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). Alpha-chymotrypsin not detected on 0.5 mg elastase after more than 24 hour incubation at 25°C on the substrate N-benzoyl-L-tryosine ethyl ester (BTEE).

Specific Activity: 115-125 units/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. > 9 units/mg of protein on the substrate Suc-Ala-Ala-Ala-pNA. One unit will hydrolyze 1 µmole per minute at pH 8.3 and 25°C.

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute in sterile distilled water.

Storage & Stability: Stable for 1 year at 2-4°C.

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