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PRODUCT SPECIFICATIONS SHEET

Alkapro Powder Product Series

Description: A microprilled, free flowing dry preparation of *Bacillus spp.* which includes high concentrations of alkaline (serine) proteinase (protein digesting enzyme). Proteinases catalyze the hydrolysis of protein polymers Into their component amino acids and peptides. While the complex polymeric protein in its original form may be practically Insoluble, the amino add components are more readily soluble or emulsifiable in aqueous solutions. Alkapro has many applications over the pH range of 6.0 - 10.5. It is extremely resistant to the effects of chelating agents and detergents. this protease is very rigorous and non-specific in its degrading effects.

Purpose: As a concentrated source of hydrolytic protein-degrading enzymes for use in industrial applications including x-ray film processing for silver recovery, industrial equipment cleaning and maintenance. Also used in detergents and pre spotters, and many other applications where broad range proteolytic activity is desired.

Activity: Alkapro 100 Powder 100,000 PC/gram

Alkapro 275 Powder 275,000 PC/gram Alkapro 400 Powder 400,000 PC/gram

Unit Definition: One bacterial protease unit (PC) is defined as that quantity of enzyme that that produces the equivalent of 1.5 mg per mL of l-tyrosine per minute under the conditions of the assay.

pH Optimum: 7.0 - 10.5, activity range pH 3.5 - 10.5.

Storage Conditions: For optimal activity store in cool dry place under 100°F. Standard shelf life under these conditions is 2 years.

Danger: May cause allergy or asthma or breathing difficulties if inhaled. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation, wear respiratory protection. Consult safety data sheet before handling and storing this product.

Package Sizes: 25 kg. and 50 lb. boxes

Summary: Bacterial proteases are well known for their extensive temperature and pH ranges. Alkapro is a broad spectrum protease particularly useful in cleaning and industrial applications. Stability the presence of chelating agents, surfactants and detergents makes it useful in a wide variety of aqueous reaction.

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