ECP Protease™

High-Efficiency Protease Enzyme Powder Concentrate

ECP Protease™ is a high-efficiency protease enzyme with keratinase activity. This specialty enzyme blend is produced by non-pathogenic bacteria and is designed for efficient hydrolysis of both general proteins and keratin-rich substrates. Protease is used in a variety of industries to break proteins into smaller molecules such as polypeptides, oligopeptides, and amino acids. Common applications include laundry and dishwashing detergents, food and feed production, pulp and paper processing, and other industrial activities. The addition of keratinase enhances the action of ECP Protease™ for applications such as leather processing that encounter hair or similar substances.

Features & Benefits

- Hydrolyzes simple and complex proteins
- Hydrolyzes natural and denatured proteins (e.g., chicken feather protein)
- Hydrolyzes hair protein
- Hydrolyzes animal, plant, and microbial proteins
- Optimizes leather processing
- Enhances cleaning efficiency
- Increases textile quality
- Enhances animal nutrition

Specifications

Color & Appearance	Off white to yellow powder
pH	5.0-7.0
Enzyme Stability	12 months
Enzyme Activity	60,000 U/g (Protease)
Shelf Life	2 years

Under standard assay conditions, ≥50% enzyme activity is maintained between pH 7.0 and 11.5, with thermal stability up to 65°C under short exposure conditions. Activity decreases significantly above 70°C.

Storage

Store in a cool, dry location. Keep containers tightly closed, before and after opening, to prevent moisture absorption and exposure to direct sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation, eye contact, and prolonged skin contact. Wash hands thoroughly after handling.

Packaging

Available in 25 kg (55 lbs) paper bags.

Typical Applications

- Formulation of biological cleaners and degreasers
- Odor control product formulations
- Wastewater and drain treatment formulations
- Institutional and industrial hygiene products
- Private-label and OEM biological products

Directions for Use

For specific dosages, contact your Bionetix® representative.

Disclosure

Under standard assay conditions, ≥50% enzyme activity is maintained within a defined operational pH range and temperature window. Enzyme stability is dependent on exposure time, substrate, and formulation conditions. Activity decreases outside optimal ranges and under prolonged thermal exposure.

21 040 rue Daoust • Ste-Anne-de-Bellevue • Quebec, Canada H9X 4C7
T 514.457.2914 • F 514.457.3589 • www.Bionetix-International.com

ISSUED DATE: 04/09/26. SUPERCEDES: 08/05/24