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**Attention: Editor**  
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**PRESS RELEASE**



## **Bionetix® Unleashes the Power of Protease/Keratinase!**

[Bionetix® International](#) is pleased to introduce its fourth enzyme concentrate: [ECP1611™](#)! Available in powder form, this high-efficiency protease enzyme with keratinase activity can be used in a wide range of industries—from detergent formulation to waste management. ECP1611™ hydrolyzes both general proteins and keratin-rich substances



into smaller molecules, making it ideal for applications that deal with hair, feathers, and similar substances. In a world where protein is ubiquitous and microbially sourced enzymes are gaining popularity, ECP1611™ meets an important need for manufacturers and formulators who require a biological catalyst for better products and processes.



### **Stain-Removing Detergents**

Proteases are most widely used in the detergent industry because they help to loosen stains composed of protein materials such as blood, eggs, dairy, and grass. Combined with other enzymes such as cellulase, mannanase, lipase, and amylase, they can create a powerful cleaning formula for dishwashing detergents,

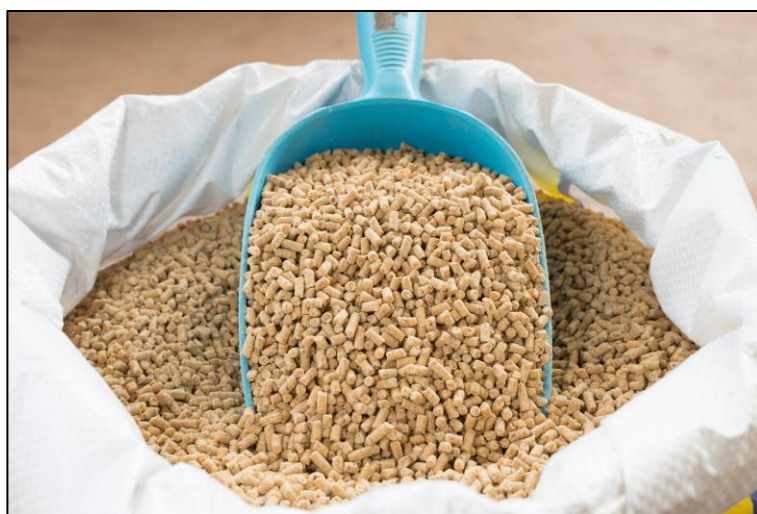
laundry presoaks and detergents, and stain removers. Because of their biological origin, enzyme concentrates such as ECP1611™ are also a great alternative to phosphate-based cleaning components.

### **Improving Leather and Textile Production**

Leather processing is one of the newer uses for protease, and this application is gaining popularity. Because ECP1611™ includes protease with keratinase activity, it is ideal for removing hair and skin in the tanning process, replacing harsh chemicals during the bating and dehairing stages. It can also be used in the textile industry (e.g., wool and silk finishing) to improve fiber textures.

### **Enriching Animal Feed and Agriculture**

When used as a feed supplement or additive, ECP1611™ can aid livestock digestion and enhance feed quality by breaking down proteins. Going one step farther, it can be used to manage waste in the food industry by helping convert discarded high-protein materials, such as feathers and other



keratin-rich poultry features, into nutrient-rich livestock feeds or organic fertilizers.

**Bionetix**  
INTERNATIONAL

ECP1611™  
POWDER ENZYME CONCENTRATE

**PRODUCT DESCRIPTION**  
ECP1611™ 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 protein 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 processing, pulp and paper processing, and other industrial activities. The addition of keratinase enhances the action of ECP1611™ for applications such as leather processing that encounter hair or similar substances.

**PACKAGING AND STORAGE**  
Available in 25 kg bag.  
Store in a cool, dry location, less than 25 °C. Packaging must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation and eye contact. Avoid excessive skin contact. Try to use the product as soon as possible after opening the original package.

**FEATURES AND 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

**TYPICAL APPLICATIONS**

- Laundry and dishwashing detergents
- Food and beverage industry
- Textile production
- Leather processing
- Animal feed production
- Waste management

**SPECIFICATIONS**

Description	Off-white or light yellow powder
Stability	12 months
pH (1% Solution)	5.0-7.0
Activity	60,000 U/g*
Effective Temperature	20-65 °C
Effective pH	7.0-12.0

\* One WinsPro activity unit (U) is defined as the amount of enzyme which releases 1.0 µg tyrosine from casein in one minute at 40 °C and pH 7.2.

## Efficient Waste Management

In addition to reclaiming and repurposing nutrient rich waste that might otherwise turn into an environmental problem, ECP1611™ can be used directly at waste treatment facilities to make sludge dewatering more efficient and speed up other aspects of the waste treatment process through enhanced protein digestion.

## Unlock the Power of Protease/Keratinase!

Whether you need to remove protein-based stains, improve your leather tanning process, or boost animal nutrition, ECP1611™ serves as a powerful biological

catalyst ready to serve your protein-hydrolysis needs. [Start unlocking the power of protease with keratinase activity today!](#)

**Keywords:** Bionetix, protease, keratinase, industrial enzymes, enzymes for detergents, where to buy enzymes, stain removing enzymes, leather processing, livestock digestion, stain removers



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Bionetix® International is a Canadian-based company that produces biological products used in thousands of field applications worldwide. We promote a healthy environment by providing superior, environmentally friendly alternatives to current treatment methods. Our customers are able to clean and remediate contaminated systems or boost agricultural productivity in a cost-effective, natural, and non-intrusive way through the application of our biological products. Headquartered in Quebec, Canada, Bionetix® International is a subsidiary of Cortec® Corporation. ISO 9001:2015 Certified.

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