

ENVIA LIFT™

Tri-Enzyme Powder for Advanced Detergent Formulations

ENVIA LIFT™ is a concentrated tri-enzyme powder blend developed to enhance the cleaning performance of laundry detergent and fabric-care formulations. Combining protease, α -amylase, and mannanase, it provides complementary enzymatic activity against protein-, starch-, and gum-based stains commonly found on washable textiles.

Protease hydrolyzes protein-based soils such as blood, sweat, dairy products, chocolate, and food residues. The enzyme α -amylase breaks down starch-containing stains from sauces, gravies, rice, pasta, cereals, and processed foods. Mannanase targets sticky mannan-based gums and thickeners found in ice cream, mayonnaise, salad dressings, toothpaste, and personal-care products.

By combining three enzyme activities into a single powder ingredient, ENVIA LIFT™ simplifies detergent formulation, enzyme dosing, and raw material management. Its multi-enzyme approach supports improved stain removal and allows formulators to explore reduced reliance on aggressive cleaning chemistry while maintaining effective laundry performance.

Features & Benefits

- Concentrated three-enzyme blend combining protease, α -amylase, and mannanase
- Targets protein-, starch-, and gum-based stains through complementary enzymatic activity
- Supports effective removal of complex, multi-component stains
- Enhances the cleaning performance of laundry detergent formulations
- Helps formulators optimize surfactant and chemical cleaning systems
- Supports the development of lower-temperature laundry formulations
- Provides three enzyme activities through a single powder ingredient
- Simplifies formulation development, enzyme dosing, and inventory management
- Suitable for conventional and concentrated powder detergent formulations

Specifications

Color & Appearance	Beige to yellowish powder
pH	9.0-11.0
Total Enzymatic Activity	Amylase: >15,000 U/g Protease: >15,000 U/g Mannanase: >225 U/g
Shelf Life	2 years

**Under standard assay conditions, ENVIA LIFT™ is designed to maintain ≥50% enzymatic activity between pH 6.0 and 8.5, with thermal stability up to 60 °C under short exposure conditions. Activity decreases significantly above 75–80 °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.

Typical Applications

- Household powder laundry detergents
- Commercial and institutional laundry detergents
- Concentrated and premium powder detergents
- Industrial textile washing formulations
- Hospitality and healthcare laundry formulations
- Enzymatic stain-removal powders
- Prewash and pretreatment formulations
- Laundry detergent boosters and additives
- Low-temperature laundry formulations
- Reduced-harsh-chemistry detergent systems
- Specialty fabric-care formulations

Directions for Use

ENVIA LIFT™ is intended for incorporation into laundry detergent and fabric-care formulations.

- Recommended Formulation Range: 0.3–3.0% w/w
- Standard Powder Detergents: 0.3–1.0% w/w
- Premium / High-Performance Detergents: 1.0–2.0% w/w
- Concentrated & Specialty Laundry Formulations: 2.0–3.0% w/w

Incorporate ENVIA LIFT™ uniformly during powder blending, minimizing moisture exposure, excessive heat, and dust generation. Final inclusion rates should be optimized according to enzyme activity, detergent composition, target stain profile, washing conditions, and formulation compatibility.

The indicated ranges are recommended starting points for formulation development and should be confirmed through laboratory and application testing.

The information presented in this product sheet is believed to be reliable. This information is provided as representative only, and there are no warranties, expressed or implied, regarding its performance. Since neither distributor nor manufacturer has any control over handling, storage, use, or application conditions, they are not responsible for any claims, liabilities, damages, costs, or expenses of any kind arising out of or in any way connected with the handling, storage, or use of the product described. Refer to the Safety Data Sheet (SDS) for additional information on safe handling, storage, and spill response procedures.

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