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PRESS RELEASE



Clean Gets Creative: Nature-Inspired Solutions for Laundry Detergent Formulators

No matter how much time we spend on it personally, laundry is an unavoidable part of life. We try to speed up the chore with washing machines and laundry services, but the task is not that simple. Moms face stubborn grass stains when their kids come home from a soccer game. Commercial laundry services battle stains on greasy repair shop



uniforms or soiled restaurant tablecloths. Even the laundering process itself can be counterproductive, fading colors and creating unsightly pilling. How can laundry detergent companies make life easier for those who clean our clothes and linen? [Bionetix®](#) encourages formulators to get creative by taking advantage of nature-based enzyme concentrates for specific laundry concerns.



Nature-Inspired Cleaning Solutions

Enzymes represent an exciting natural opportunity to enhance laundry formulations. At Bionetix[®], the palette includes five key enzymes produced by non-pathogenic bacteria or fungi for greater sustainability.

- [ECL1000[™]](#): An amylase enzyme that aids in the removal of starch-based stains like those from potatoes, pasta, and corn starch.
- [ECL1200[™]](#): A lipase enzyme that breaks down greasy deposits like butter, oil, and automotive greases.
- [ECP1300[™]](#): A β -mannanase enzyme that targets mannan-based stains from tomatoes, chocolate, and guar gum (increasingly used as a thickener in food and personal care products).
- [ECL3000[™]](#): A cellulase enzyme that helps with the removal of cellulose-based stains (think grass stains and vegetables), reduces pilling, and discourages redeposition of soils.
- [ECL1611[™]](#): A protease enzyme with keratinase activity that targets the protein in blood, milk, and grass stains.

Modern detergent performance is optimized through multi-enzyme systems, where complementary catalytic activities act sequentially on complex soils. The combined use of lipases, amylases, proteases, and mannanases enables simultaneous hydrolysis of lipids, carbohydrates, and proteins, providing superior stain removal compared to single-enzyme formulations.

Problem-Specific Laundry Care

Bionetix[®] enzyme solutions are adaptable to both household and industrial laundry formulations, addressing high-soil industrial uniforms, hospitality textiles, healthcare linen, and consumer garment care with tailored enzyme



systems. While some formulators may combine all five concentrates to create a powerful general-purpose stain remover or a premium laundry detergent that maintains brightness and smoothness while reducing stains, others may prefer to target specific concerns. Possibilities include

- Heavy-duty detergent enhanced with ECL1200™ (lipase) for greasy auto industry uniforms.
- Heavy-duty detergent enhanced with ECL1200™ (lipase), ECL1000™ (amylase), and ECL1300™ (β-mannanase) for stained food service linen.
- Heavy-duty detergent enhanced with ECL1611™ (protease with keratinase) for hospital and lodging linen.

Furthermore, consumer brands may want to cater to busy moms attracted to specialized grass- and blood-stain removers made from ECL3000™ (cellulase) and ECL1611™, gum and tomato-stain removers made from ECL1000™, or all-purpose detergents made with ECL3000™ for anti-pill, anti-fade properties.



Get Creative with Bionetix® Enzymes

Bionetix® enzymes are at the disposal of formulators who need practical, nature-based solutions to the common laundry problems of pilling, fading, and staining. These enzyme concentrates exhibit high compatibility with anionic and non-

ionic surfactants, water softeners, and common detergent builders. Proper formulation ensures preservation of enzymatic activity throughout storage and during the washing process. All enzyme concentrates are produced from biosafety level-1 microorganisms and comply with applicable regulatory and occupational safety requirements for detergent ingredient applications.

If you are a formulator ready to power up and diversify your laundry care line, be sure [to contact Bionetix® for more advice on how to get started with your next creative enzyme-powered formulation!](#)

Keywords: laundry detergent formulation, nature-inspired cleaning solutions, enzyme-based detergents, sustainable laundry care, innovative laundry ingredients, Bionetix, enzymatic stain removal, stain removal technology, textile care, eco-friendly detergents

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