

ENVIA ESSENTIAL™

Ready-to-Use Enzymatic Maintenance Solution

ENVIA ESSENTIAL™ is a ready-to-use enzymatic maintenance solution derived from the ENVIA CORE™ platform, featuring a simplified three-enzyme system for routine maintenance of drains, grease traps, and piping systems. The product is specifically designed for environments where calcium and magnesium accumulation leads to scaling, grease solidification, and pipe blockages.

ENVIA ESSENTIAL™ uses enzymatic synergy to break down the organic matrix of greases, biofilm, starch residues, and proteins that trap hardness minerals and form deposits commonly referred to as scale or tartar in piping systems. (Protease breaks down protein residues that contribute to biofilm and deposit formation. Amylase hydrolyzes starches and carbohydrates that create sticky residues inside pipes. Lipase degrades fats, oils, and greases that trap calcium and magnesium salts and contribute to hard deposits.) By degrading these organic binders, the scale structure loosens and can be removed through normal flow and maintenance cleaning procedures.

Features & Benefits

- Three-enzyme synergistic formulation (protease, amylase, lipase)
- Designed for pipe scale and hardness deposit removal
- Improves grease trap performance under hard water conditions
- Helps remove calcium and magnesium associated deposits
- Improves emulsification of fats and greases
- Reduces pipe blockages and maintenance frequency

Specifications

Color & Appearance	Clear light amber to brown liquid
pH	5.0–6.0
Total Enzymatic Activity	Protease: 25,000 U/mL Amylase: 600 U/mL Lipase: 3,850 U/mL
Shelf Life	2 years

The system maintains ≥50% of its nominal enzymatic activity between pH 5.0–10.5 and temperatures of 25–65 °C under standard conditions. Optimal synergistic performance is typically observed between pH 7.0–8.5 and 45–55 °C.



Storage

Store in a cool, dry location. Do not freeze. Keep containers tightly closed, protected from moisture and direct sunlight. Please follow the recommendations and use the product before the best before date. Mix well before use. Contact Bionetix® with questions. Avoid inhalation, eye contact, and prolonged skin contact. Wash hands thoroughly after handling.

Typical Applications

- Grease traps
- Drain lines and sewer pipes
- Hard water scale deposits in pipes
- Food processing drains
- Wastewater collection systems
- Lift stations and wet wells
- Industrial floor drains
- Restaurants and commercial kitchens

Directions for Use

ENVIA ESSENTIAL™ is typically used as part of routine drain and grease trap maintenance programs. The product may be applied directly or diluted depending on the severity of grease accumulation, scale deposits, and maintenance frequency.

Suggested Dilution Guidelines

- Heavy grease /clogged drains: Use undiluted or 1:2
- Moderate deposits: 1:5–1:10
- Preventive maintenance: 1:10–1:20
- Grease trap maintenance: 1:10 applied regularly

Apply at the end of the day and allow overnight contact time when possible. For best performance, always adjust dosage according to soil load, wash cycle parameters, and product formulation requirements. Contact Bionetix® Technical Support for site-specific recommendations.

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