



Themis
Biotechnology & Life Science

The future of Innovation and Sustainability.

ENZYMATIC LINE

SPECIFIC FOR INDUSTRIAL USE



From nature to industry

The alliance between technology and nature for a sustainable future

ZYME+ is born from the experience and innovative vision of Themis, a leading company in the design and production of cutting-edge industrial wastewater treatment systems. With the awareness that the future of industry depends on more sustainable and efficient solutions, Themis has pioneered a biotechnological revolution: a perfect integration of advanced engineering and natural enzymes, transforming waste into resources and reducing the environmental impact of industrial processes.

The story of **ZYME+** is one of research, innovation, and commitment to the planet. Inspired by natural biological processes, we have developed a tailored enzymatic ecosystem for industrial plants, capable of accelerating the degradation of organic contaminants and improving the efficiency of wastewater treatment. It is not just a product line—it is a new era for industry, where science and biotechnology meet engineering to create a cleaner, smarter, and more sustainable production model.

With ZYME+ change is already underway.

Why choose enzymes?

- **Natural effectiveness:** they break down organic substances without the need for harsh chemicals.
- **Sustainability:** reduce waste and environmental impact with a biological treatment approach.
- **Higher efficiency:** improve process performance and shorten treatment times.
- **Lower costs:** reduce energy consumption and optimize waste management.

Tailored solutions for every need

Starting from our core products, we develop customized enzymatic blends to meet the specific treatment needs of wastewater plants, the food industry, and industrial water treatment.

Enhance efficiency, reduce costs, and get optimized enzymatic solutions for your facility.

Application fields

- **Food industry**
Treatment of food waste and processing by-products.
- **Industrial wastewater treatment plants**
Improved water purification and sludge reduction.
- **Industrial cleaning**
Enzymatic formulations for the removal of organic residues.
- **Odor control**
Elimination of organic compounds responsible for bad odors in treatment facilities.

Enzymes for waste and wastewater treatment: bioinnovation serving sustainability

In the industrial sector, enzymes offer an innovative and eco-friendly solution for waste management and wastewater treatment.

Proteases, lipases, amylases, cellulases, and pectinases are among the key biocatalysts used to break down complex organic materials into simpler, more biodegradable compounds.

Through their targeted action, these enzymes accelerate the decomposition of proteins, fats, starches, cellulose, and pectins, optimizing purification processes, reducing residues, and minimizing solid waste formation.

The use of enzymes in industrial waste and wastewater treatment not only enhances disposal system efficiency but also **facilitates resource recovery**, such as organic fertilizers, supporting circular economy models.

Moreover, compared to traditional chemical treatments, enzyme-based solutions lower energy consumption and reduce the use of harsh substances, **making industrial processes more sustainable and environmentally friendly.**



Our enzymes for industrial treatment

Turn waste into resources with the power of Zyme+

Advanced enzymatic solutions for the treatment of food waste, wastewater, sludge and organic residues in industrial sectors.



PROZYME

Effective protein Decomposition

ProZyme facilitates the degradation of organic protein residues, reducing pollutants in wastewater treatment plants. It enhances biological purification and prevents build-up in systems.

- Removes protein residues in wastewater
- Improves the efficiency of treatment plants
- Prevents the formation of bad odors



LIPOLYZE

Dissolves and degrades fats and oils

LipoLyze is designed for the management of oils and fats in industrial wastewater treatment plants and anaerobic digestion processes. It prevents blockages and enhances plant efficiency.

- Eliminates fats from wastewater treatment plants and industrial effluents
- Prevents scale build-up and discharge issues
- Reduces the production of oily sludge



CELLUBREAK

Degrades plant waste and fibers

CelluBreak accelerates the decomposition of cellulose-rich food waste, such as peels and plant residues. It is ideal for organic waste treatment plants.

- Optimizes the treatment of food industry waste
- Enhances waste degradation in wastewater treatment plants
- Reduces the volume of treatment sludge



AMYLOFAST

Eliminates starches and reduces build-up

AmyloFast breaks down starches found in food waste and industrial wastewater, preventing the formation of deposits and facilitating anaerobic digestion.

- Converts food waste into fermentable sugars
- Enhances biological purification efficiency
- Prevents build-up and bad odors in treatment plants



PECTOPRO

Targeted pectin decomposition

PectoPro facilitates the degradation of pectin in plant waste, improving the management of fruit and vegetable residues in industrial processes and wastewater treatment.

- Increases efficiency in the treatment of plant waste
- Optimizes filtration and separation processes in treatment plants
- Promotes better degradation of biomass



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