



**EVOBAC**

Bacteria for wastewater treatment

## Applying science to solve problems

We believe that nothing speaks louder than results. And so we focus on developing great wastewater treatment products that make us proud. Products that deliver the results that you are looking for.

*We focus on Science. So that you can focus on your business.*

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## What is Evobac?

Evobac is a mix of powerful aerobic bacteria isolated from nature for rapid degradation of organic compounds. These bacteria are highly vigorous multipliers (have a very short doubling rate), are extremely tolerant to the fluctuations in their surroundings (heat, pH, toxicity, and high TDS tolerant) and have a wide range of degradation profile (due to a broad enzyme profile).

In simple words, these bacteria can handle the fluctuations in a wastewater treatment plant and can continue to grow vigorously and reduce the COD and BOD significantly.

## Where can I use it?

Evobac has been designed specifically to deal with tough challenges in effluent treatment. It is in fact meant to be used in situations where generic bacteria do not perform. Evobac is effective in treating effluents with high COD, high TDS, High COD to BOD ratio, xenobiotic compounds, recalcitrant, oil and grease, high nitrogen, and much more. It works in effluents with bactericidal/bacteriostatic compounds, aromatic compounds, detergents, antibiotics etc. It is effective in high concentration of benzene, phenol, toluene, xylene compounds.

Evobac is designed to work in the fluctuating environment of wastewater treatment plant. We request you to look at our case studies too, or get in touch with us to discuss your specific problems.

## What does it have?

Evobac has a multiple bacterium (different genus, not just species) isolated from nature. They are all approved GRAS status organisms. These are not genetically modified organisms and they are selectively chosen for their hardy nature. They do not lose efficacy in just a few months.

If you maintain your plant well, bacteria in Evobac will continue to work efficiently for several years without any additional dosage. Some of them are spore formers, while some are not. Together they release a wide range of enzymes in your effluent treatment plant. And apart from bacteria, Evobac also has pre-biotics and metabolic precursors that speed-up the degradation process.

## Which industries does it work in?

Evobac is used in various kinds of effluent treatment plants for treating different types of process wastewaters. It is used to treat Food Industry Effluent, Beverage Industry (Wine, Fruit Juice) Wastewater, Dairy Industry Effluent, Wastewater from Meat Processing Industry, Paper Industry Effluent, Pharmaceutical Industry Effluent, Effluent from Textile Units, Effluent from Chemical Manufacturing Units, Effluent containing Dyes, Colorants, Detergents, etc.

Evobac is used in all types of Activated Sludge Wastewater Treatment Plants, Common

Effluent Treatment Plants, Municipal and Commercial Sewage Treatment Plants. UASBs, etc. For Anaerobic wastewater treatment plants, we offer **Evobac ANB** and for Biomethane gas production anaerobically, we offer **Evobac Methanogens**.

## How to use Evobac?

The product application process is pretty straight forward. It does not require any special equipment or skill. However, we will be glad to understand your challenge and suggest a treatment strategy.

## What are the benefits?

- Significantly reduce COD and BOD
- Reduce Fats Oils and Greases in effluent
- Reduce Ammoniacal Nitrogen levels
- Reduce Suspended Solids
- Reduce Wastewater Sludge Volume
- Improve start-up/recovery from shock load
- Reduce H<sub>2</sub>S formation and control odour
- Reduce bad odours from effluent
- Get good Flocculation and settling

## Specifications:

Form	Free flowing powder
Bacteria Count	100 billion CFU/gram
pH stability	4.5 to 8.5
Temperature stability	5°C to 55°C
Oxygen requirement	Aerobic
Colour	Light Brown
Safety	GRAS approved bacteria
Packing	25 Kg Cardboard drum
Shelf Life	3 Months

## Few of the Enzymes produced by bacteria in Evobac

Enzyme type	What does it do?
Nitrate Reductase	Reduces nitrate present in wastewater
Cellulase	Breaks down cellulose and similar polymers
Ligninase	Degrades lignin, which does not break down easily
Lipase	Degrades fats, oil, grease, etc.
Peroxidase	Used for colour removal in effluents
Laccases	Highly effective in degradation of phenolic compounds
Hydrolases	Degrade a wide range of organic chemicals in effluent
Catalase	Breaks down residual hydrogen peroxide into oxygen and water
Protease	Breaks down proteins in sewage and in food industry wastewater
Amylase	Very useful in treatment of bakery, fodder, and poultry wastewater



**EVOLON BIOTECH**  
**EvoBac-ARD**  
*Bio-Culture for waste water treatment and odour removal*  
Net Wt: 25 Kg  
Gross Wt: 27.2 Kg  
Mfg Date: Jan 2015  
Exp Date: July 2015  
Batch No: EN-175  
Storage: Store in cool and dry place