

# Mykrobak Dairy

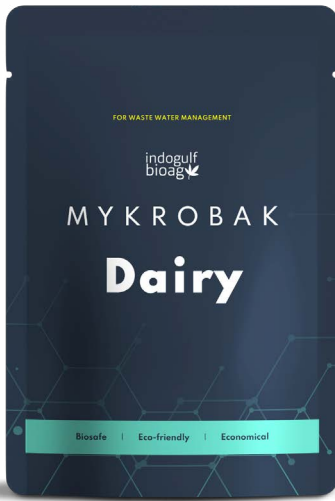
## What is Mykrobak Dairy?

Mykrobak Dairy consists of a wide variety naturally selected isolated bacterial consortium which is used to degrade organic compounds from Dairy Industry. Mykrobak Dairy is blend of selected microbial species which are acclimatized and cultivated to degrade high BOD & COD, TSS and Fat oil & grease. These bacteria are competent to handle and stabilize shock load due to continuous CIP process in Dairy industry. They are efficient to work with wide range of pH and Temperature, that is typical problem in dairy industry.

Mykrobak Dairy bacteria reduce the high lactose, fat oil and grease from waste water that further helps to reduce the accumulation and deposition of organic compounds on the surface of the tank. The dairy industry involves transformation of raw milk into various products such as consumer milk, butter, cheese, yogurt, condensed milk, dried milk (milk powder), ice cream, and whey powders, lactose, using different process such as chilling, pasteurization, and homogenization. Dairy waste water is highly biodegradable and Mykrobak Dairy helps to increase the BOD removal efficiency of biological systems. Different waste sources through cheese, butter, apparatus and CIP sections contributes more largely towards their higher biological oxygen demand (BOD), chemical oxygen demand (COD), and oil and grease, pH and temperature as well much higher than the permissible limits.

Mykrobak Dairy is the combination of bacteria that is able to reduce nutrients and to withstand the high salinity levels due to the use of salting activities in cheese production.





### Benefits of Mykrobak Dairy

- Degrades volatile fatty acid
- Reduces foaming in biological tank
- Suppresses harmful bacterial growth
- Reduces plant commissioning time
- Multiple strains of bacteria for effective result
- Stabilizes shock load
- Reduces odour from plant
- Reduces excess sludge generation
- Improves overall efficiency of the plant
- Effective under most environmental conditions
- Easy to store, handle and transport

Performance properties	
PH	6.5 – 7.5
Temperature	5 to 55°C
Reactivation Rate	99% After addition to water
Concentration	Highly Concentrated
Shelf Life	2 years

Physical properties	
Appearance	Off White Colour
Physical State	Powdered Form
Odour	Odourless
Moisture Content	6-7%
Mesh Size	0.6 mm
Packaging	1 kg Aluminum zip lock

### Dosage Schedule

Depend upon the organic load, contaminants and volume of waste water

### Area of Application

- Membrane Bio reactor
- Activated sludge Process
- Sequencing batch reactor
- Moving bed bio reactor
- Extended Aeration system
- UASB

### Application Matrix

1. Mix Mykrobak 1 kg powder in 20 Liter water (Prefer normal temperature)
2. Stir well and remain in bucket for 30 minutes (for bacteria activation)
3. Directly Dose at inlet of tank

