



### MegaMicrobes® PB5 | Powder Blend Wastewater Inoculant Overview

**PB5 is a comprehensive, biological industrial and municipal wastewater treatment.** PB5 performs synergistically because it contains **two types** of bacterial strains, *Bacillus* and *Pseudomonas*. These bacterial strains complement each other to provide all-around treatment performance by generating enzyme-activated and targeted degradation.

Use **PB5 free-flowing powder** to treat common wastewater organics including **animal and vegetable fat, oil, and grease** build up and to help lower BOD and COD levels. PB5 will **lower overall sludge buildup** and provide a balanced biological population to help avoid upsets. PB5 even performs well in low dissolved oxygen environments.

PB5 aids in **stabilizing treatment plant operations**, especially when inconsistent loading occurs. PB5 also will aid in system start-ups and upset recovery. PB5 bacteria will germinate and grow within the treatment plant and develop a beneficial biofilm along the hard surfaces of the system helping to avoid total plant upsets. PB5 encourages solids settling which results in cleaner effluent discharge.

PB5 will **reduce odors** associated with organic loading and hydrogen sulfide gas production.

For high sugar loaded systems, use PB5Q, a specially formulated bacterial blend that has the ability to target and degrade high concentrations of soluble sugar waste streams.

PB5 Powder is also available in a super concentrate form at 50 billion colony forming units/gram.



## PRODUCT BULLETIN

# MegaMicrobes® PB5 | Powder Blend Wastewater Inoculant Technical Information

### Performance Qualities

- ✓ Guaranteed quality controlled product with high cell counts
- ✓ Exceptional bacterial enzyme activity
- ✓ Speeds breakdown and digestion of fats, carbohydrates, proteins, cellulose, and starches
- ✓ Bacterial metabolism with aerobic and anaerobic growth
- ✓ Environmentally safe formulation containing non-pathogenic bacteria
- ✓ Long shelf life

### Characteristics, Handling, and Storage Product Characteristics

Bacterial cell count:	5 billion CFU/gram
Bacterial type:	Multiple <i>Bacillus</i> and <i>Pseudomonas</i> strains
Salmonella/ Shigella:	Negative
Appearance:	Tan powder
Fragrance:	None
Stability:	Over 1 year @ 35° to 95° F (2° to 35° C)

### Performance Characteristics

Enzyme production:	Lipase/protease/amylase/cellulase/urease
Bacterial pathways:	Aerobic and facultative anaerobic
pH range:	5.5 – 9.0
Active Temperature range:	39°F to 140°F (4°C to 60°C)
Optimal Temperature:	77°F to 104°F (25°C to 40°C)

### Storage and Handling:

Best stored in a cool, dry location.

Avoid inhalation and contact with eyes; wash hands after handling.

**Packaging Options:** 25-pound (11.34 kilograms) container or custom on request

### MegaMicrobes® PB5 | Powder Blend Wastewater Inoculant Dosing Parameters

For industrial or municipal wastewater treatment systems, use the following guidelines for PB5 addition:

#### **1 Million gallons of daily flow:**

Initial dosing: 25 lbs / 1 million gallons of daily flow

Maintenance: 1 lb / day per million gallons of daily flow

#### **100,000 Gallons of daily flow:**

Initial dosing: 2.5 lbs / 100,000 gallons of daily flow

Maintenance: .5 lbs / day per 100,000 gallons of daily flow

#### **Pond Treatment**

Apply 4-6 pounds of PB5 per surface acre of water.

Repeat every 2-4 weeks with a 2 pound application or as needed for maintenance

Please contact NeoLogic for additional information.

