

# BCP80™

## MANURE TREATMENT

### FEATURES AND BENEFITS

- Helps ensure rapid biological startup
- Enhances and accelerates the biological digestion of animal wastes
- Reduces costs of manure pit maintenance and drainage
- Breaks up solids and decreases organic content
- Reduces odors
- Increases fertilizer value

### PRODUCT DESCRIPTION

BCP80™ contains beneficial microorganisms and nutrients that accelerate the biodegradation of animal wastes and other wastes high in proteins. It is effective in helping to reduce odors and sludge accumulations. It improves the overall ease and efficiency of manure handling and can also be used to boost production in biogas operations by improving hydrolysis.



### TYPICAL APPLICATIONS

- Slurry Storage
- Lagoons
- Digesters

### SPECIFICATIONS

Description	Beige with black granules; free-flowing powder
Stability	Max. loss of 1 log/yr
pH (1% Solution)	6.0 – 8.5
Total Bacteria Count	5 billion CFU/g

### PACKAGING & STORAGE

Available in bulk, water-soluble pouches (200 x 56 g, 400 x 28 g, 40 x 250 g), and custom packaging.

Store in a cool, dry location. Packaging must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation and eye contact. Avoid excessive skin contact.

### APPLICATION INSTRUCTIONS

BCP80™ is packaged in water-soluble pouches for direct addition to lagoons or manure pits at the following rates:

# BCP80™

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## *Manure Pits —*

Add 10 kg per month per 500 cows or 2,000 pigs. Application rates and locations depend on manure dimensions and current biological conditions.

Use in accordance with all federal and state regulations. Results will depend upon site and climate conditions. Avoid extreme pH and temperature conditions.

## *Lagoon Systems —*

- *Aerated systems* — application rate is based on the average flow rate to the lagoon.
- *Facultative systems* — application rate is based on the lagoon surface area:

Day 1-5	20 kg/10,000 m <sup>2</sup> /day
Day 6+	2 kg/10,000 m <sup>2</sup> /week

- *Anaerobic systems* — Application rate is based on the total volume of the anaerobic lagoon:

<200,000 L	1 kg - 2x/week/10,000 L
>200,000 L	0.5 kg - 1x/day/10,000 L

## **PRODUCT TEST**

*Introduction* — With the large number of manure storage lagoons that are being planned, there is naturally an interest by producers in the use of biological materials that are purported to reduce or eliminate the odors associated with these lagoons. Under the appropriate environmental and management conditions, biologicals may be effective for reducing odor intensity and/or improving odor quality.

*Treatment* — A slurry lagoon in which 30% of the aqueous portion consisted of rainwater was chosen for this study. When rainwater is present in this concentration in a lagoon, separation occurs relatively quickly. The purpose of this experiment was to demonstrate the use of BCP80™ and trace amounts of STIMULUS™ and its effect on manure and odor reduction.

*Results* — When 5 kg of BCP80™ and 20 L of STIMULUS™ were deposited in the lagoon, dissolution of surface scum and digestion of sludge were observed.

Seven days after the addition of the microbes to the lagoon, a portion of the surface scum had dissolved. Within fourteen days, only 10% of the scum remained, and shortly thereafter the remainder disappeared with no subsequent reoccurrence.

The digestion of sludge was also surveyed. It was confirmed five months later that no sedimentation of sludge had occurred in the lagoon.

The addition of BCP80™ and STIMULUS™ to the manure lagoon also led to a decrease in odor. Within two days of the addition there was a marked reduction in odor, and one week later the odor had disappeared.

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*We work for nature*

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