

# BCP655™

## BIOCONVERTER FOR INDUSTRIAL AND MUNICIPAL LAGOONS

### FEATURES AND BENEFITS

- Removes nitrogen from wastewater rather than converting it to another form
- Reduces ammonia levels
- Removes organic nitrogen (i.e., amino acids, proteins, purines, pyrimidines, nucleic acids)
- Increases wastewater treatment efficiency by at least 50%
- Reduces plant upsets from shocks
- Eliminates expensive surcharges for high TKN discharge levels

### PRODUCT DESCRIPTION

BCP655™ consumes organic and inorganic nitrogen such as ammonia, nitrate, and nitrite in municipal and industrial treatment plants. Bacteria strains in BCP655™ are capable of using ammonia, nitrate, and nitrite as a nitrogen source.

Selected strains used in BCP655™ are heterotrophs and utilize organic carbon as the source for food and energy. In the presence of organic carbon at elevated concentrations, they can consume more ammonia than nitrifying bacteria. Overall nitrogen removal occurs through a variety of mechanisms including higher carbon uptake and use of nitrite/nitrate for respiration and growth purposes.



### TYPICAL APPLICATIONS

- Wastewater lagoons
- Other biological treatment units

### SPECIFICATIONS

Description	Beige powder with black granules
Stability	Max. loss of 1 log/yr
pH (1% Solution)	6.0-7.5
Nutrient Content	Biological nutrients and stimulants
Bacteria Count	5 billion CFU/g
Handling	DO NOT FREEZE! Do not inhale dust. Avoid contact with eyes. See SDS.

### 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

### Bioaugmentation Method

#### Lagoon Systems:

- Facultative systems — application rate is based on the lagoon surface area:

Day 1-3	20 kg/10,000m <sup>2</sup> /day
Day 4+	2 kg/10,000m <sup>2</sup> /day

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

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

- Lagoons in cold climates — commence program when the water temperature is at least 50°F (10°C). For further information about application contact your BIONETIX® technical representative.

BCP655™ can also be used with A55L™ to increase overall nitrogen removal.

## COMPARISON OF TREATMENT

Nitrifiers	BCP655™
Temperature dependent	Wider range of temperatures  <b>NITROGEN REMOVAL IN COLD WEATHER</b>
Ammonia conversion is not coupled with BOD/COD reduction	Ammonia, nitrite, and nitrate digestion is coupled with BOD/COD reduction
Sensitive to toxic organic compounds	Consumes organic compounds  <b>NO TOXICITY PROBLEMS</b>
Ammonia is oxidized in the presence of air	<b>LOWER OXYGEN REQUIREMENT</b>
Nitrite/nitrate needs to be denitrified to nitrogen gas	<b>DENITRIFYING BACTERIA</b>

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