

BIOGAS BOOSTER 3™

MICRONUTRIENTS FOR ANAEROBIC DIGESTION STIMULATION

FEATURES AND BENEFITS

- Increases methane production
- Increases process stability
- Improves possibility for increased organic loading

PRODUCT DESCRIPTION

Biogas is produced when organic matter is broken down by microorganisms under anaerobic conditions. Microorganisms involved in the production of biogas not only require macronutrients such as nitrogen and phosphorus to grow; they also need micronutrients.

BIOGAS BOOSTER 3™ contains micronutrients in a stable soluble and bioavailable form that makes them easily accessible to microorganisms. Lack of micronutrients leads to a decrease in biogas plant efficiency, while the addition of BIOGAS BOOSTER 3™ can improve biogas production during digestion of organic waste.



TYPICAL APPLICATIONS

BIOGAS BOOSTER 3™ can be used in different types of anaerobic digesters for a variety of feedstocks:

- Municipal Waste
- Agricultural Waste
- Food Waste
- Other Waste

SPECIFICATIONS

Description	Pink-reddish-brown free-flowing liquid
pH	4.0-5.5

PACKAGING & STORAGE

Available in 4 x 4 L, 20.37 kg, 208.82 kg, 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

Initial Dose: 5 L per 100 m³ of tank volume

Maintenance Dose: 2.5 L per 50 m³/day (flow rate)

Dosage rates can vary with flow rates, retention times, and system variations. The rates above are for a typical, well-maintained system.

BIOGAS BOOSTER 3™

BIOGAS BOOSTER 3™ is most effective when used in digesters with neutral pH. pH may need to be adjusted in other cases.

PRODUCT TEST

Laboratory tests conducted by York University, Ontario, showed an increase in biogas production in one week when BIOGAS BOOSTER 3™ was used:

“After a week of reactor operation, the cumulative biogas generation is 71 ± 6 mL/g VS added and 105 ± 15 mL/g VS added for control and test reactor, respectively. . . . [B]iogas production is expected to increase due to the addition of anaerobic digester stimulant.”

(York University NSERC Engage Project Report, “Novel Bacterial Blend to Enhance Biomethanation of Municipal Sewage Sludge,” 11 December 2020. Prepared by Prof. Brar’s Team: Dr. Bikash Tiwari, Rahul Saini, and Mona Chaali.)

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