

micron
BIO-SYSTEMS



Transform

BIOGAS ENHANCER

A large, dark grey, cylindrical industrial biogas digester tank with a white hemispherical top. In the foreground, there is a green metal structure, likely a feedstock treatment unit, supported by a metal frame. The scene is outdoors under a blue sky with some clouds.

Unlock More Energy

BIOGAS FEEDSTOCK TREATMENT

Transform

BIOGAS ENHANCER

Transform can significantly increase biogas production from a wide range of feedstocks. Available in feedstock-specific formulations for forage silages, livestock waste, meat factory waste, as well as domestic or industrial food waste based substrates.

Features

- Contains a unique blend of enzymes specifically formulated for their ability to improve the digestibility of a range of feedstocks.
- Three different formulations for different feedstocks:
 - T1 - Forage
 - T2 - Domestic, food and livestock waste
 - T3 - High proteing substrates, including meat wastes from abattoirs
- Contains microbial stimulants.
- Suitable for automatic dosing.

Benefits

- Enzymes unlock more energy for biogas production.
- Improves speed, quantity and quality of methane production in the digester.
- Aids in reducing viscous substrate, therefore reducing plant processing costs.
- Flexibility on feedstock, suiting different situations both agricultural and domestic industrial;
- Flexibility of use on integrated farms with biogas plants and livestock.

More Energy for Gas

- **Transform** allows biogas producers to maximise the energy that can be derived from cellulosic materials through methanogenesis by fermenting a wide range of feedstocks.
- Enzymes effectively break down and separate the cellulose from lignin in the feedstock, allowing for rapid digestion of the carbohydrate in the fibre fractions.
- Microbial stimulants support and boost the growth of the fibre separating microbes, for a faster more effective process, helping to avoid over-acidification of the digester.





Trialled and Tested German official biogas research laboratory, Eichhof Hessen, concluded that **Transform** demonstrated the potential for a significant increase in methane production from both grass and maize silages used as the primary feedstock.

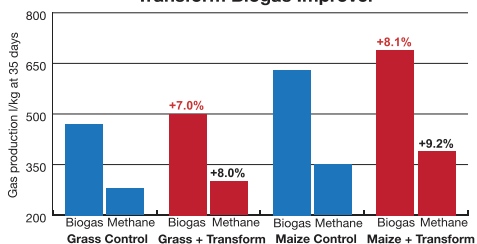
Eichhof Hessen Trial Results:

On grass - an increase of +7% biogas and +8% methane.

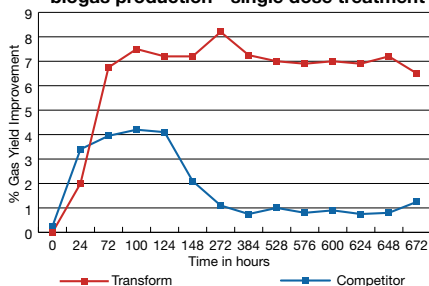
On maize - an increase of +8.1% biogas and +9.2% methane.

Wessling Laboratory, Germany, also carried out a digester trial comparing different products against Transform. Transform was shown to be the most stable product and showed an average improvement of 8.4% biogas yield at 79% CH4 (methane).

Eichhof digester trials - Transform Biogas Improver



Wessling Laboratory digester trial: biogas production - single dose treatment



Biogas Enhancer



Ingredients:

Transform is a selected mixture of enzymes used for enhancing biogas production. Other ingredients include dextrose and precipitated silica.

Available in 3 formulations in 1kg pots:

T1: for energy crops and forages

T2: for domestic, food and livestock wastes

T3: for high protein content substrates including meat



Directions:

Each 1000g jar is sufficient to treat 100m³ of Biogas substrate.

Transform should be mixed with water before applying. For automatic metering systems, make up a 10% solution containing 100g of powder per 1 litre of water and use 100ml per 1m³ of substrate.

Initial dosing: For the first 10 days of the treatment apply a solution containing 20g of Transform or 200ml of a 10% solution per 1m³ of substrate.

Maintenance dosing: Apply a solution containing 10g of Transform per 1m³ of substrate or 100ml of a 10% solution per 1m³ of substrate.

Storage:

Store in original sealed packaging in dry and cool place below 10°C. Keep the jar closed when not in use. Use within 12 months of manufacture.

ABOUT MICRON BIO-SYSTEMS

Micron Bio-Systems is dedicated to developing cutting-edge product-based agricultural and environmental solutions designed to improve business performance.

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