SCHAUMANN
BIOENERGY
CONSULT



WHERE BIOGAS STARTS.
AND EXCELLENCE BEGINS.

As a specialist in biomass-based energy production and energy marketing, Schaumann BioEnergy delivers innovative products and comprehensive solutions, covering everything from substrate preparation and laboratory services to fermenter biology.

YOUR ENERGY DESERVES MORE – AND WE DELIVER!

TRACE ELEMENT PRODUCTS
BECAUSE YOUR PLANT CAN DO MORE THAN YOU THINK.

- Tailored solutions for your plant
- Optimize the methane production process
- Fully compliant with occupational health and safety requirements under TRGS 529.

THE BC CONCEPT (BIOGAS CONTROL)

	CUSTOMIZED	STANDARD
LIQUID	**BC.TEplex // CR.TEplex** Analysis-based, highly concentrated EDTA-based micronutrient blend	**BC.MICROcon5 LIQUID** Standardized liquid concentrate containing essential trace elements for methanogenesis
GRANULAR	**BC.COMPACT** Targeted supplementation of micro- and macronutrients **BC.MAGXX** Highly bioavailable trace elements with reduced dosage requirements	**BC.MICROcon5** Essential trace elements for methanogenesis; high bioavailability of the elements; easy dosing due to low product weight and safe handling **BC.PRO Akut // BC.PRO START** For use in digesters during acute biological process disturbances. Balanced blend of macro- and trace elements, toxin binders, and process stabilizers.

BIOLOGICAL SILAGE ADDITIVES
YOU EXPECT MORE THAN STANDARD? SO DO WE!

- CO_2 savings by preventing aerobic spoilage
- Maximizes methane yield per hectare
- Prevents secondary heating
- Preserves energy content

FOR CARBOHYDRATE-RICH SILAGE
- **SILASIL ENERGY**
  Promotes substrate breakdown
- **SILASIL ENERGY.XD**
  For shorter silage maturation times, from as little as 2 weeks

HIGH-PROTEIN, LOW-CARBOHYDRATE SILAGE
- **SILASIL ENERGY.SG**
  For wet substrates with a high carbohydrate content
- **SILASIL ENERGY.BG 2.0**
  Particularly effective against Clostridia

DUAL-ACTION PRODUCT
For biogas production and animal nutrition
- **SILASIL ENERGY.C**
- **SILASIL ENERGY.G**

We also offer suitable silage additive solutions for all other substrates not listed here.
Contact us for a customized solution.

DESULFURIZATION
- Our proven desulfurization solutions. When optimally distributed in the digester, all products effectively bind hydrogen sulfide in the substrate and support the biological activity of the digester.

INTERNAL DESULFURIZATION
- POWDER
  - **BC.ATOX Scon**
    Our premium product: exceptionally high sulfide-binding capacity with buffering properties across all retention times
  - **BC.ATOX Scon ECO**
    Effective sulfide binding for medium retention times
  - **BC.ATOX Scon BASIC**
    Effective sulfide binding for long retention times
- PASTE
  - **IRON HYDROXIDE (MOIST)**
    Freshly precipitated iron oxyhydroxide for rapid and cost-efficient desulfurization
- LIQUID
  - **BC.ATOX LIQUID**
    Our premium solution for liquid desulfurization

EXTERNAL DESULFURIZATION
- **FERRUM Scon**
  Iron granules for hydrogen sulfide removal in external filter systems // high sulfide loading capacity // tailored to filter size, moisture content, and gas pressure

FLOW ENHANCERS
- Provides rapid relief from viscosity-related issues associated with dry substrates.

ALGEAZYM HOMOGEN
Homogenizes the digester contents and promotes substrate degradation

BC.SLcon
Homogenizes the digester contents in the event of phase separation

TOXIN BINDERS
- Binds inhibitors and toxins in the digester

BC.ATOX Ncon
Minimizes the inhibitory effect of ammonia and promotes acid degradation

BC.ATOX ACTIVE
Reduces nitrogen inhibition and promotes acid breakdown

ALGEACELL+DETOX
Detoxifies the biological process

BC.ATOX HPcon
Reduces the partial pressure of hydrogen and promotes the breakdown of propionic acid.

SPECIALTY PRODUCTS
- Ensure a stable process, prevent foaming and struvite deposits

BC.SPcon
Breaks down a wide variety of foams

BC.TACcon // BC.PHcon
Increases buffer capacity

BC.MAKROcon
Compensates for deficiencies in macronutrients

CONSULTING
Expert, reliable services delivered directly on site

- Biological Process Consulting
- Start-up to Full Capacity
- Leak Detection
- Comprehensive Plant Consulting
- Rapid Plant Recovery Service
- Tailored Research Solutions
- Harvest Management Consulting

TSF ANALYTICS
The foundation for your plant management and substrate strategy

- Laboratory Analysis for Process Monitoring
- Digester Biology
- TF Bonus Analysis
- Batch Tests
- Continuous Digestion Trials
- Inhibitor Tests
- Digestate Potential
- Silage Analysis
- Fertilizer Value Analysis
- Specialized Analytical Services

ENZYMES
- Customized solutions for improving substrate utilization and reducing viscosity

BC.ZYM CUSTOM
Plant-specific enzyme blend tailored to the individual substrate mix

BC.ZYM MAIS // BC.ZYM MAIS DRY
Improves the digestibility of drought-stressed corn silage

BC.ZYM FASER // BC.ZYM FASER MS
Enables the breakdown of difficult-to-digest, very dry substrates such as corn stover and manure

BC.ZYM Ncon
Improves digestibility, particularly under elevated nitrogen concentrations

E LIQUID
Our certified organic liquid enzyme product!
E Liquid is a standard blend designed for use with substrates containing high cellulose levels.

BC.ZYM
High-quality enzyme products for accelerated degradation and improved mixing characteristics

We also offer certified organic solutions for these products.

INSIDE RESEARCH

We investigate what will make a difference tomorrow.

INSIDE ANALYTICS

We uncover the potential of your biology.

INSIDE PRODUCTION

We provide solutions tailored to your plant.

INSIDE PRACTICE

We tackle problems where they arise.

STANDARD? NOT WITH US!

WE DELIVER SOLUTIONS AS INDIVIDUAL AS YOUR PLANT.

Biogas experts since 2007

Supporting 3,800+ biogas plants worldwide

Over 70 biogas specialists available worldwide for on-site support

35,000 customized trace element blends

Proprietary lactic acid bacterial strains selected by SCHAUMANN Research

345,000+ analyzed digester samples

Our own 776 kW biogas plant (electrical output) for product research and development

274 digesters ranging from 1 to 60 liters for batch and continuous biogas trials

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