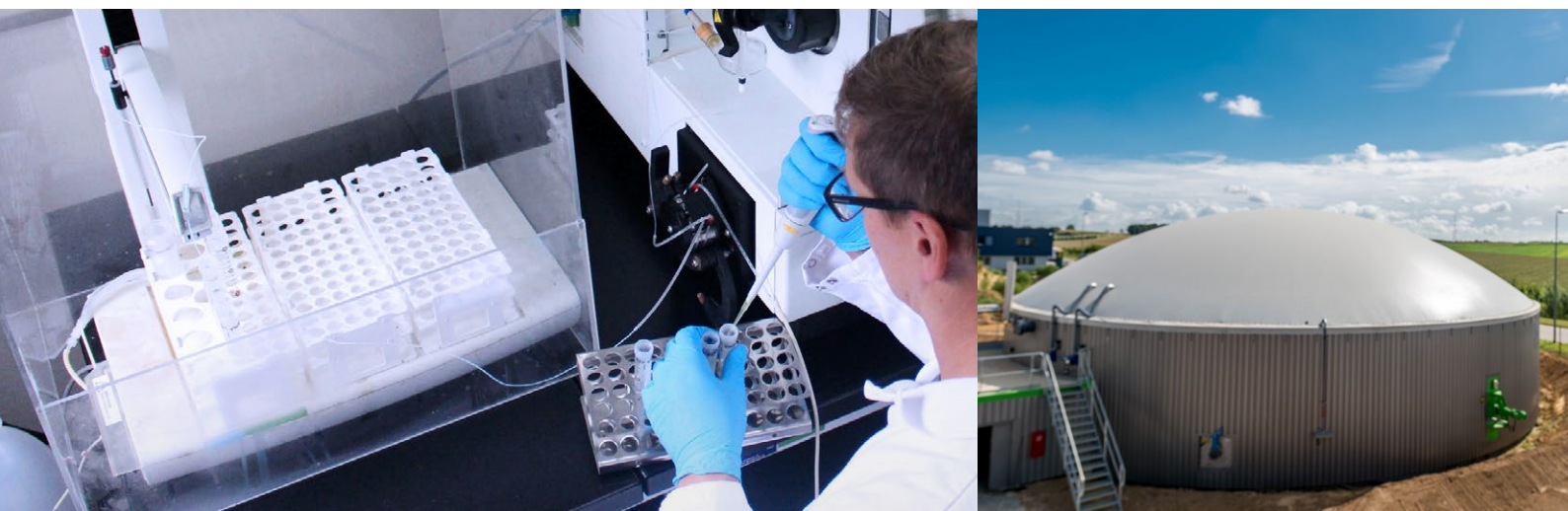


Pure salts

Trace element pure salts – immediate response to drops in performance (TRGS-compliant)



Supplementing essential trace elements to optimise the process

Trace elements are vital

Generating biogas involves many different organisms degrading a wide range of organic substances under anaerobic conditions. To break down this biomass, the bacteria in the digester produce enzymes able to catalyse practically any metabolic process. To produce these enzymes and multiply, the bacteria need trace elements, which must be fed into the digester on a continuous basis.

This is primarily done via the substrates fed into the installation, but this is not sufficient to completely cover requirements. Assuring an efficient, stable biological process involves supplementing each relevant trace element to achieve the right balance.

The effects of deficiencies

If nutrients are lacking or the concentration of trace elements falls below a specific level, this can slow the biological process because the bacteria in the digester don't have the optimum habitat to metabolise the substrates. The result is that some types of bacteria work more slowly, while other, more sensitive types even fail completely.

Pure salts: all the benefits at a glance

- > Increase plant capacity utilisation
- > Stabilise process biology
- > Boost degrading of substrate
- > Targeted, flexible dosage



What is the process?

Analysis

- Analysis of the fermenter status and trace element provision in our accredited laboratory

Recommendation

- Delivery of a unique dose recommendation for emergency aid
- Delivery of a dose recommendation for regular addition

Application

- Optimisation of plant efficiency
- Stabilisation of the Biological process
- Offsetting of deficiencies

Inspections

- Depending on the substrate application, inspection interval of at least every 6 months

Pure salts: fast and effective

While a lack of a specific type of bacteria doesn't generally result in a complete failure thanks to the fact that other groups of bacteria take over the job of breaking down the substrate, the performance of a biogas installation will drop if the supply of trace elements is insufficient.

Pure salts help rapidly remedy deficiencies in the digester, giving the bacteria a boost and getting the plant back up to speed. The targeted addition of the missing trace elements by way of pure salts will significantly improve your process biology.

Glad to support

In addition to providing advice and helping you feed in salts and consumables on an emission-free basis, we also provide a slide gate (compliant with TRGS 529).

Your specific requirements in terms of specific chemical building blocks may also increase if you change substrates or their composition. By running analyses at our accredited laboratory and recommending amounts of supplement to be added on an immediate or regular basis, we can help prevent potential deficiencies.

Good reasons to choose Kanadevia Inova Schmack

The figures speak for themselves: around 100,000 digester state analyses, 3,000 satisfied customers, 200 customers receiving microbiological support, 20 years of experience in microbiology, accredited lab of our own.*

* Only applies to the test methods specified on the accreditation certificate.



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