

Microbify GmbH

Business Strategies

Microbify provides services related to anaerobic microorganisms. Microbify starts its work where normal laboratories have reached their limits. Our clients use anaerobic microorganisms in biological power-to-gas applications or have problems with microorganisms that form biofilms in their systems or cause microbially induced corrosion. Microbify offers tailor-made solutions for both issues which are adapted to the client's individual situation.

Core technologies and services

Microbify offers "smart solutions for tough microbes" and thus finds individual solutions for dealing with very special microorganisms that live in special environmental conditions and that cannot be cultivated and analyzed in ordinary laboratories. Microbify is a spin-off of the Chair for Microbiology & Archaea Center at the University of Regensburg, where top world-renowned research has been carried out with these extraordinary bacteria and archaea for over 40 years. In addition to the relevant expertise, Microbify also has special laboratory equipment and devices, some of which were developed in-house. Especially in the field of ??sampling of systems that are difficult to access as well as the cultivation and identification of extremely sensitive organisms, Microbify clearly stands out from conventional microbiological analysis laboratories. Microbify's services are divided into the following areas:

1. Analytics: Detection and identification of microorganisms in technical systems and natural habitats, e.g. natural gas storage, hydrogen storage, hydraulic systems etc.; Analysis of microbially induced corrosion (MIC)
2. Biomethanation: Conversion of green hydrogen and CO₂ into regenerative gas ("green natural gas")
3. Cultivation: Cultivation of microorganisms on a small scale for analyzes as well as on a large scale to provide cell mass as starter cultures or to isolate valuable cell components (enzymes, etc.)

In addition, Microbify itself conducts active research on the use of archaea in biological power-to-gas applications.