

KNOW THE NUMBERS

MICROBIAL PROCESS ANALYTICS



Microbial
bioprocessing



Feed
production



Probiotics,
postbiotics & LBPs



Food supplements
& additives

ON-SITE, REAL-TIME & FULLY AUTOMATED

MICROBIAL CONCENTRATION IN
YOUR PRODUCTS IS CRUCIAL.

**WE GIVE YOU ALL THE NUMBERS –
AROUND THE CLOCK, FULLY AUTOMATED.**



BIOPROCESSING

QUANTIFY MICROBES THE SMART WAY

Manual monitoring the traditional way



✗ Manual sampling

Collecting samples is slow, costs human resources, and is only available during working hours.

✗ Laboratory processing

Sample handling requires expert personnel and laboratory infrastructure or external services.

✗ Delayed results

Enumerating CFUs takes 1 to 10 days until results can be reported and action taken.

✗ Shaky information

Only a fraction of microbes can be cultivated and infrequent sampling lacks representativeness.

Online monitoring the onCyt way



✓ Online sampling

Samples are drawn 24/7 at multiple points in the production stream.

✓ Automated processing

Samples are processed and measured without a single manual step.

✓ Real-time results

Results are available within minutes allowing timely corrective and preventive actions (CAPA).

✓ High-resolution data

Viability and activity of the microbes in your process are continuously quantified and assessed.



know something – sometimes



know everything – always



PROBIOTICS



FOOD SUPPLEMENTS

OPTIMIZE

Fermentation process
Microbial yield
Harvesting time
Lot-to-lot reproducibility



FEED PRODUCTION

6 GOOD REASONS ONLINE MICROBIAL ENUMERATION



Data is power

The number of cells, including dead and viable but non-culturable, is the most critical microbiological parameter of your product.



Risk management

Enable process and product understanding and control of critical process parameters (CPPs) that influence critical quality attributes (CQAs).



Product quality

Higher certainty of meeting regulatory requirements in relation to the concentration of microbes and their physiological states.



Cost savings

Save money by increasing process productivity, decreasing wasted production, and reducing manpower and material necessary for sampling and plating.



Production efficiency

Maximize bacterial yield and viability, optimize harvesting time, and reduce manufacturing downtime and hold times.



Ease of use

Gain more meaningful data on all microorganisms, with less effort and no need for expert personnel and laboratory infrastructure.

OUR OFFERINGS

We propose a complete package of services to make online microbial quantification a success for your company.

MONITORING SYSTEM

Fully automated sampling and measurement device.

Software turning complex measurements into actionable information.

HANDS-ON SUPPORT

Kick-start your application with training and installation support.

Measurement campaigns for specific questions or as a first step towards modern microbial quantification.

EXPERT CONSULTANCY

Translating new insights into direct customer value, based on industry-leading know-how.

BRING YOUR MICROBIAL PROCESS ANALYTICS TO THE NEXT LEVEL

Our team will be happy to answer all your questions and propose a solution matching your needs.

