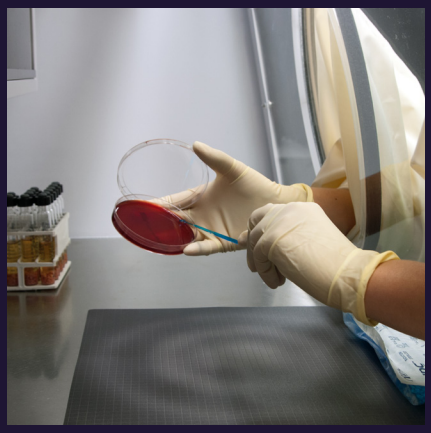
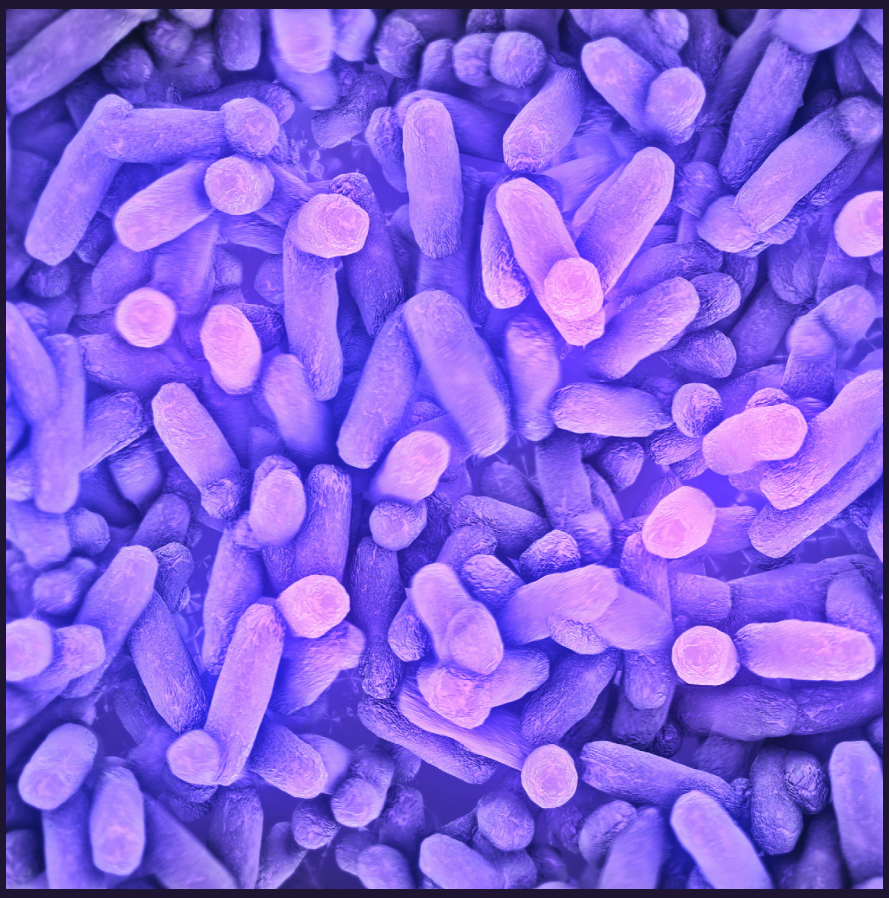




Biolog for Microbial Insights

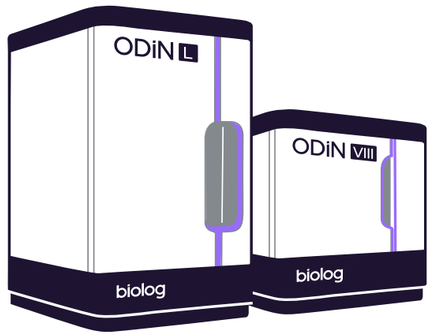
Powerful cellular analysis tools and services for solving critical problems

Instruments

Profiling metabolic phenotypes is critical for understanding an organism. A functional profile of a microbe or a community provides real insights that complement genomic or proteomic methods. Biolog provides a range of solutions for performing cellular metabolic characterization, growth kinetics, and microbial identification at any throughput.

Odin Family

- The all-in-one solution for identification and phenotypic characterization! Fully-automated metabolic profiling, growth kinetics, and microbial identification on one platform
- Well-suited for any throughput, incubating and reading up to 8 or 50 plates at once with kinetic reads measured and analyzed for every well

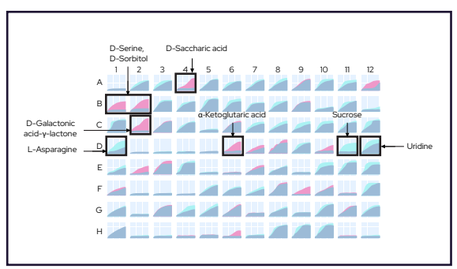


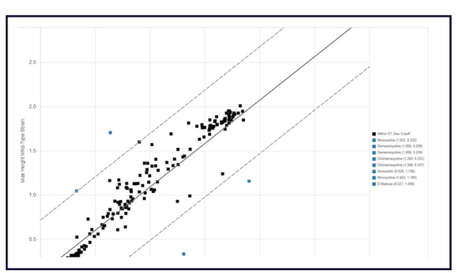
ID Station

- A semi-automated system for identification and classification of bacteria, yeast, and filamentous fungi, one plate at a time

Powerful Software

- Acquisition and analysis data for Odin™ and ID Station™ instruments, for microbial characterization and identification
- User-friendly interface
- Single-click data export
- 21 CFR-Part 11 Compliant
- Proprietary Identification Databases with >3,000 species, and ability to add custom database for novel or proprietary organisms
- Community Analysis software package for comparing microbial communities under different conditions



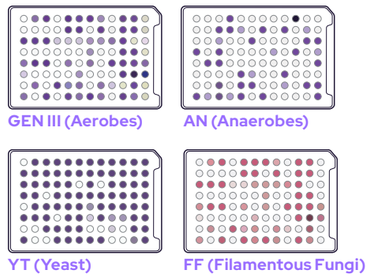


Tools and Reagents

Biolog offers microplate-based assays designed for a range of different applications. Inoculation with a standardized cell suspension is followed by testing for the functional presence or absence of thousands of phenotypes in a single experiment. The same method enables species-level identification of microbes with our extensive database.

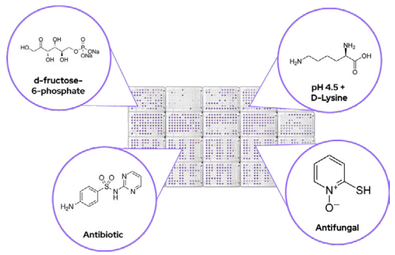
Microbial Identification Microplates

- Rapidly identify over 3,000 species of aerobic and anaerobic bacteria, yeast, and fungi
- Carbon source utilization assays that produce a characteristic pattern or "metabolic fingerprint" from panels of pre-selected assays for aerobic bacteria, anaerobes, filamentous fungi, and yeast



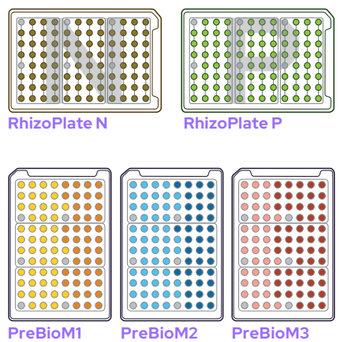
Phenotype Microplates

- Interrogate metabolic pathways with plates designed to test Carbon, Nitrogen, and Phosphorous utilization
- Test chemical sensitivity to a range of inhibitors as well as ionic, osmotic, and pH effects
- Profile mammalian cells with metabolite and mitochondrial function assays



Community Analysis

- Monitor environmental changes in microbial communities with EcoPlates™
- Detect, rank, and monitor nitrogen-fixing and phosphate-solubilizing bacteria with RhizoPlate™ series
- Accelerate microbiome research with PreBioM™ series containing a range of prebiotic substrates
- Optimize media selection for culturing anaerobes with Anaerobic MediaMatcher™



Customizable Phenotype MicroArrays

- Design your own phenotyping panels focused on your specific needs

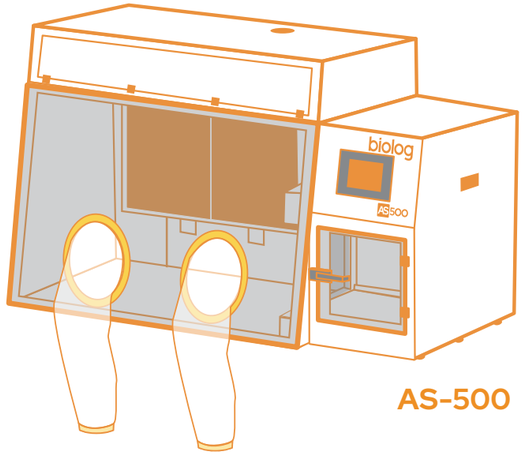
Anaerobic Chambers

Anaerobic organisms play critical roles in health and disease pathology of humans and animals, as well as throughout the Earth's ecosystems. Isolating and culturing these fastidious organisms with consistent results requires specialized conditions.

Biolog has decades of experience with manufacturing ergonomic and flexible chambers and formulating special nutritive media that never comes in contact with oxygen, designed to culture even those organisms that were previously thought to be unculturable.

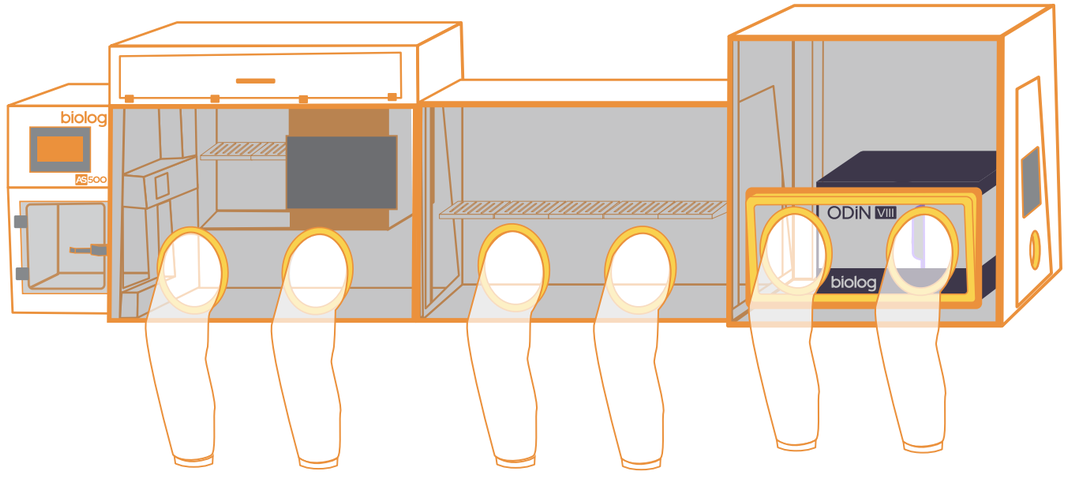
AS-500 Anaerobic Chamber

- Best-in-class oxygen-free environments with flexible configuration options, including expansion modules for accommodating lab instrumentation
- Gloveless chambers with features designed to maximize comfort and minimize regular maintenance
- Hypoxia Option precisely controls oxygen from 0 to 10% for culturing a variety of microaerophilic microbes



AS-500

AS-500
with Expansion Module (EX)
and Instrument Module (IMO)



TruPRAS Media

- The only media on the market manufactured under TruPRAS™ conditions, never coming into contact with oxygen from pouring through packaging.
- Plated and liquid media to grow organisms in anaerobic conditions, fully ISO 13845:2016 compliant
- Specialized clinical media registered with FDA, MDEL, and EU-IVDR
- Media for collecting, transporting, and preserving anaerobic specimens
- Custom formulations and larger bagged formats available

Enriched Plated Agar Media

Non-selective
BRU, TSA-NAM, YCFAC, MTGE, CHOC

Non-selective, differential
EYA, BHIY-HT, ETSA

Selective
LKV, CCFA-HT, PEA, FSA, CAMPY, P.GING, TSBV, LMRS

Selective, differential
BBE, CCFA, BIFIDO, CCFA-L, MSAT, CVE, ETSA-NV

For yeasts and molds
TSA-TL, YMEA

Enriched Liquid Media

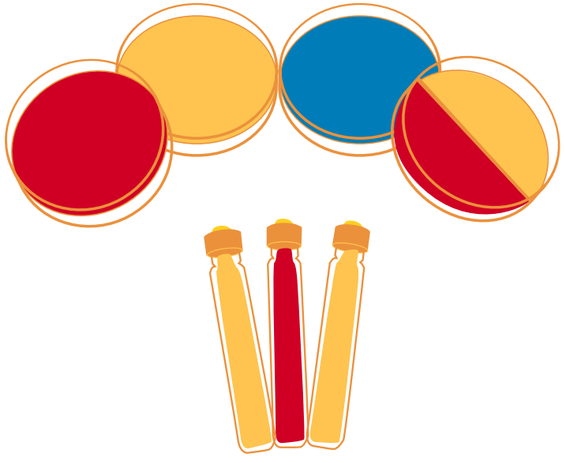
Non-selective
THIO, PY, BHI, PYG, BRU, MTGE, CM, YCFAC, CMG, OTEB, CMC

Selective
CAMPY-THIO, LMRS, CCMB-TAL

Specimen Collection & Transport Media

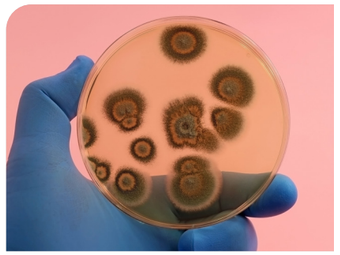
Tissue/solid samples
ATTM-SP, ATTM, LDT, DTM

Injected aspirates/ liquid samples
ATM-SP, ATM, LDT, DTM



Microbial Identification & Characterization

Comprehensive, compliant, and cost-effective microbiology solutions with quick turnaround times from Biolog Lab Services.



Microbial ID and Enumeration

Utilizing advanced Genotypic, Proteotypic, and Phenotypic methods for comprehensive identification and enumeration.

Rapid Turnaround Time

Guaranteed swift results, for big projects and small. Our standard times are some of the fastest in the industry.

Trusted Results

ISO 17025: 2017 accredited and validated testing services. Registered with the FDA, GDUFA, and cGMP compliant.

Biolog Lab Services provides specialized solutions for microbial contamination identification, enumeration and phenotypic analysis of aerobic and anaerobic organisms for any industry, including:

FOOD & BEV · PROBIOTICS · BREWING · COSMETICS · CSPs · PHARMACEUTICAL · WATER TESTING · AGRICULTURE

Multiomic Identification

We offer multiple analytical identification methods to help you resolve any contamination concerns:

- Genotypic Sanger DNA sequencing
- Proteotypic MALDI-TOF
- Phenotypic identification with Biolog Identification Test Panels for Aerobic Bacteria (gram-negative and gram-positive), Anaerobes, Yeasts, and Filamentous Fungi

Enumeration Testing

Accurate microbial counts are essential for quality control. We offer a suite of enumeration testing services, including:

- Total plate count
- Total count of spore-forming bacteria
- Total viable count
- Total yeast count
- Total aerobic or anaerobic count
- Bioburden enumeration
- Custom enumeration

Foodborne Pathogen Testing

Rapid and sensitive, our ISO-scoped molecular assays can accurately detect the presence or absence of five of the most common food pathogens in a wide variety of matrices:

- *E. coli O157* (including H7)
- *Listeria*
- *Salmonella*
- *Campylobacter*
- *Cronobacter*

Phenotypic Characterization and Profiling

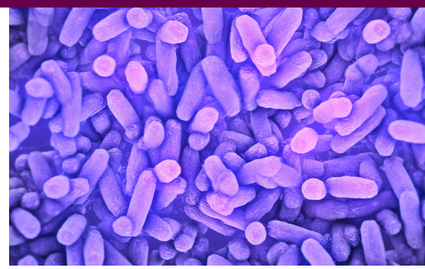
Gain deeper insights into microbial behavior with our phenotypic characterization services, in aerobic or fully anaerobic environments.

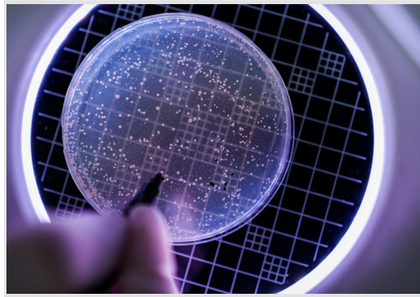
Our microbiology expertise and panels of specialized plates help you understand the unique traits of microorganisms, enhancing your research and quality control efforts.

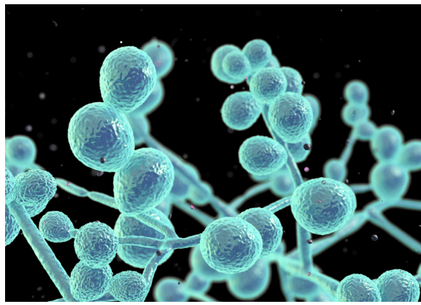
Other Specialized Microbiology Services

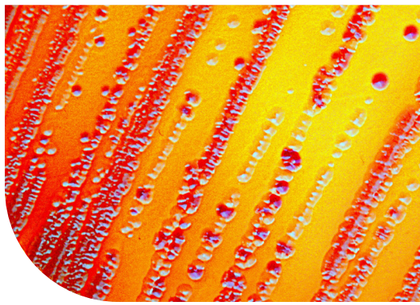
We offer a wide range of specialized microbiology testing services, including:

- Gram staining
- Purity testing
- Biological indicator testing
- Water bioburden testing
- USP <797> testing services
- Anaerobic testing services









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