



Bio-Technical Resources



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1035 South 7th Street
Manitowoc, WI 54220
USA

Phone: 920-684-5518
Fax: 920-684-5519

info@biotechresources.com
www.biotechresources.com

Bio-Technical Resources provides contract services for development of microbial fermentation processes. We help our clients go from concept to market by combining strain improvement with a solid fermentation development program. Over 50 years of experience has shown us that integrating strain improvement with process development is the fastest, most cost effective way to develop a commercial process.

Industries & Markets Served



- Biotechnology
- Pharmaceuticals
- Food / Feed
- Nutraceuticals
- Biofuels
- Agriculture
- Industrial chemicals
- Enzymes / Proteins
- Antibiotics
- Secondary metabolites
- Probiotics (animal & human)
- Biomass products & therapeutics
- Microbiomes / Consortia

Services Provided



- Strain construction
- Strain improvement (classical and recombinant)
- Biocatalysis (whole cell and enzyme)
- Protein expression (intracellular and extracellular)
- Fermentation development & optimization
- Downstream processing
- Process scale-up & demonstration
- Small-scale manufacturing

Host Strains for Expression & Optimization Services



- *Escherichia coli*
- *Bacillus subtilis*
- *Trichoderma reesei*
- *Saccharomyces cerevisiae*
- *Pichia pastoris*
- Other host strains – inquire

Facilities & Equipment



- 15,000 sq. ft. research laboratory
- 60 fermentors (1-250 liter scale)
- Aerobic & anaerobic incubators
- Molecular biology labs
- Microbiology labs
- Biochemistry labs
- Analytical support
- HPLC & GC-FID
- Spectrophotometry
- Product recovery