



COMPREHENSIVE MICROBIOLOGY & GENOMICS SOLUTIONS

Industrial Microbiology Solutions for Bio-catalysis, Enzymes & Natural Products

Microgenomx's industrial microbiology program develops bio-processes for producing natural products, renewable chemicals, biocatalysts, vaccines, and therapeutic proteins.

For partnering and collaboration opportunities, please contact:

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SCREEN-READY
TARGETED MICROBES

LYOPHILIZED OR FROZEN
FORMATS

TARGETED SCREENING

EARLY, SMALL SCALE
BIOPROCESS DEVELOPMENT

MATERIAL PRODUCTION
VIA SEMI-PREP
CHROMATOGRAPHY

INCORPORATION OF
STATISTICAL DESIGN OF
EXPERIMENTS (DOE)

Incubated at ILSE, Microgenomx focuses on advancing human health by providing innovative solutions through research, tools, and services.

WHOLE GENOME SEQUENCING

Sequence, assemble, annotate, and analyze sequence data of desired strains.

TARGETED SCREENING

Screen for the desired activity (optional small-scale process development).

CULTURE SELECTION

Select cultures from ILSE's Partner Collections (or Client's)

SCREENING PREP

Curate target cultures into screen-ready, well-plates (24, 48, 96 deep well)

SPECIAL OFFER: KETO-REDUCTASE SCREENING

The first in a series of bio-catalysis screening panels, we have assembled a keto-reductase screening panel of ATCC cultures with proven activity against structurally different ketone substrates. Microgenomx will screen this panel for conversion of your ketone substrate to the corresponding alcohol.

Illumina® Whole Genome Sequencing of panel organisms will allow for rapid, subsequent identification of the target activity.



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ADVANTAGES OF BIO-CATALYSIS

**HIGH SELECTIVITY &
REACTION SPECIFICITY**

**MILDER REACTION
CONDITIONS**

**HIGHER REACTION
RATE POTENTIAL**

**PATHWAY
OPTIMIZATION**

**POTENTIAL SHORTER
SYNTHETIC ROUTES**