



Microbial Identification

Lancaster Laboratories offers multiple technologies and approaches to ID Testing, including MicroSeq® and Riboprinting for genotypic identification and MIDI ID for phenotypic identification.

Why Choose Lancaster Laboratories?

- Standard turnaround time is 10 business days, and we offer priority services upon request.
- We have more than 20 years of experience providing Microbial Identification support to the pharmaceutical industry.

Genotypic Identification

MicroSeq® Microbial Identification System uses PCR to amplify the first 500 base pairs of the 16S or 28S gene.

- Rapid (1–2 days)
- Can be used on viable and non-viable cultures
- Database contains more than 3,000 validated bacterial, yeast and fungi sequences
- Options for full gene sequencing are available
- Offers a high degree of accuracy

RiboPrinter® Microbial Characterization System uses fragmented DNA that is separated by size through gel electrophoresis, which is then transferred to a membrane containing a DNA probe where it is mixed with a chemiluminescent agent forming a banding pattern that is captured by a digitizing camera.

- Rapid (2-3 days)
- Database contains more than 2,000 validated bacterial patterns
- Strain characterization ability
- Allows comparison with historical data
- Offers strain level identifications, which are valuable to clients investigating and attempting to pinpoint the source of contamination



Phenotypic Identification

Microbial ID System uses fatty acid methyl ester analysis by gas chromatography (GC-FAME).

- Rapid (3-5 days)
- Database contains more than 2,000 microbial species
- Large database of environmental organisms
- A cost-effective option for large volumes of IDs from an established monitoring program

Gram stain morphological characteristics and biochemical testing such as API 20E®, coagulase, catalase, etc. are also used in conjunction with or as confirmatory tests for identifications on the MicroSeq®, RiboPrinter® and microbial ID systems.

Discover our solutions at: LancasterLabsPharm.com

Global Services:

Biochemistry
Cell Bank Manufacturing
Facility & Process Validation
Method Development & Validation
Microbiology
Molecular & Cell Biology

Mycoplasma Services
Raw Materials Testing
Release Testing
Residuals & Impurities Testing
Stability Testing & Storage
Viral Clearance & Viral Safety

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