

# Genotypic Microbial Identification



The National Collection of Industrial, Food and Marine Bacteria (NCIMB) Microbial Identification Service has over 30 years' experience of providing fast, confidential and accurate identification of bacteria and fungi, now to Good Manufacturing Practice standards.

NCIMB isolates and identifies organisms from sources as diverse as microchips and bedbugs and has particular expertise in the pharmaceutical, environmental and personal healthcare sectors.

Our molecular techniques offer more rapid turnaround times than traditional methods and the National Collection provides us with a unique source of reference material. We can also offer a choice of priority or standard service to meet your specific requirements.

## MicroSeq® methodology

Sequencing-based MicroSeq® methodology is the most accurate and reproducible solution for bacterial and fungal identification available today.

Our MicroSeq® service includes:

- DNA extraction from microbial cultures
- Amplification of the 16S (or 26S) rRNA gene by PCR (500bp or full gene options are available)
- Cycle sequence analysis on the ABI sequencer
- Systematic double analysis
- Comparison of the unknown sequence with the MicroSeq® database
- Searching of public databases if required
- Customer report detailing top sequence matches and phylogenetic trees
- Long term archiving of DNA on request
- Safe shipping culture cards

This technique is ideal for:

- Viable and non-viable material
- Organisms with complex growth requirements
- Gram variable isolates
- Slow-growers
- Non-fermenters
- Other fall-through organisms difficult to classify using other techniques

## Commercial Services

We offer a comprehensive range of commercial services, including culture maintenance and preservation, chemical analysis, ecotoxicological testing and support of novel discovery research. This is in addition to the extensive range of bacteria, bacteriophage and plasmids available through our Culture Collection.

### NCIMB Ltd



Ferguson Building, Craibstone Estate, Bucksburn, Aberdeen. AB21 9YA

Tel: +44 (0) 1224 711100 Fax: +44 (0) 1224 711299

Email: [enquiries@ncimb.com](mailto:enquiries@ncimb.com) Web: [www.ncimb.com](http://www.ncimb.com)

