Microbial Identifications

Microbial identifications are performed for a variety of reasons, including characterization of a product's bioburden, routine testing of incoming materials, evaluation of environmental isolates, identification of sterility test positives, and investigation of out-of-spec products or conditions.

WuXi AppTec performs microbial identification and characterization in-house using various instruments and techniques. Primary methods of identification are performed using the BioMerieux VITEK® 2 system or the DuPont RiboPrinter® system.

WuXi AppTec

WuXi AppTec is a global leader in providing discovery, testing and manufacturing services for the pharmaceutical, biologics and medical device industries. Research-driven and customer-focused, with operations in China and the U.S., WuXi AppTec offers a broad and integrated portfolio of services designed to assist our customers with cost-effective and efficient outsourcing solutions.

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The automatic RiboPrinter® system from DuPont Qualicon identifies and characterizes bacteria through genetic "fingerprinting."

Principle of the RiboPrinter® System

The RiboPrinter® is a fully automated system for identifying and characterizing bacterial isolates. The system uses ribosomal DNA to create a genetic fingerprint, or RiboPrint® pattern, which can be used to identify bacteria beyond the species level. The DuPont Identification Library has over 6000 ribosomal patterns – representing more than 1400 microbial species – and new patterns can be added to expand the library.

Advantages of the RiboPrinter® System

The RiboPrinter® system is fast, reliable, and, being totally automated, both consistent and non-subjective. It allows identification beyond the species level, which is an advantage when tracking microbial isolates for particular materials, a specific product or throughout a process or system. As new patterns are encountered, they can be added to expand the library, and these patterns can be compiled into individual, client-specific databases.

Principle of the VITEK® 2 Compact System

The VITEK® 2 compact system is a fully automated system that performs bacterial identification by biochemical analysis using colorimetry.

Advantages of the VITEK® 2 Compact System

The VITEK® 2 compact system is highly automated and allows for the rapid, accurate identification of some bacterial strains in as little as two hours. In addition to being able to identify bacteria, the VITEK® 2 compact system is able to identify multiple species of yeast. In total, the system's database is capable of identifying a variety of microorganisms.

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The VITEK® 2 compact system offers Advance Colorimetric™ technology that allows for the identification of 98% of clinical isolates.

OTHER MICROBIAL ID METHODS

Identifications can also be performed biochemically using API 20E & 20C test kits or the BBL™ Crystal™ Identification Systems. DNA sequencing or fatty acid analysis is also available through approved contractors.

For more information on WuXi AppTec's services please contact:

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