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## ***Dupont Riboprinter Microbial Characterization System***

### **Advantages of the RiboPrinter System**

- The RiboPrinter microbial characterization system provides the speed, accuracy and resolution needed to identify bacteria and then compare them at the strain level for efficient and consistent characterization.
- Using powerful DNA-based information, the RiboPrinter system provides an automated genetic snapshot (RiboPrint pattern) of any bacterial strain in less than eight hours.
- RiboPrint patterns identify and characterize environmental isolates, pathogens, spoilage organisms, control strains, beneficial organisms or any bacterium that is important to the pharmaceutical, personal care and food safety industries.

### **Automated performance**

Until now, the methods for genetic characterization of bacteria required highly skilled technicians and lacked standardization and consistency. The RiboPrinter system provides the speed, accuracy, reproducibility and confidence never before possible. From start to finish, the RiboPrinter system process is automated, simplifying operator training and minimizing errors due to technique. Loading and operating the characterization unit are easy and intuitive. The workstation software is user-friendly, providing sophisticated data analysis that eliminates the need for subjective interpretation of results.

### **Useful information**

Only the RiboPrinter system combines automation and the power of DNA to go beyond identifying and documenting a microbial problem. Every time a sample is run, the RiboPrinter system produces an exact genetic snapshot of organisms linked to historical data. With a comprehensive, dynamic picture of any microbial environment, technicians can track and manage data at the strain level, letting them pinpoint contamination with more speed, ease and precision than ever before possible.

### **The flexibility to match any situation**

With the RiboPrinter system restriction enzyme flexibility, ribotyping bacteria can be performed with either a prepackaged restriction enzyme or a custom configuration, while retaining the advantages of full automation. Up to eight bacterial isolates can be tested at one time, with results available eight hours from sample input. Because the system can

accept new batches every two hours, up to 32 samples can be loaded in a normal workday. This provides rapid, accurate results for great confidence in any product tested.

### **Throughput**

- Up to 32 samples per day; 8 samples per batch with results in 8 hours; new batches can be loaded every 2-3 hours

### **The flexibility to match any situation.**

With the RiboPrinter® system restriction enzyme flexibility, ribotyping bacteria can be performed with either a prepackaged restriction enzyme or a custom configuration, while retaining the advantages of full automation.

### **Greater speed and confidence throughout the day.**

Up to eight bacterial isolates can be tested at one time, with results available eight hours from sample input. Because the system can accept new batches every two hours, up to 32 samples can be loaded in a normal workday. This provides rapid, accurate results for great confidence in any product tested.

### **Control any microbial environment.**

The RiboPrinter® system provides rapid, standardized identification and characterization of bacteria. The power to track and identify bacteria increases every time a sample is run. With a comprehensive, dynamic picture of any microbial environment, technicians can track and manage data at the strain level, letting them pinpoint contamination with more speed, ease and precision than ever before possible.

### **Harnessing the power of DNA.**

More than the building blocks of life, DNA and technology that uses genetic information can be the foundation for powerful business results. DuPont Qualicon provides advanced, automated systems that use DNA to detect, identify and track the presence of environmental isolates, pathogens, spoilage organisms, control stains, beneficial organisms or other bacteria. Just as DNA information has forever changed the criminal justice system, the accuracy and speed of genetic-based solutions from DuPont Qualicon have revolutionized the detection and identification process for the pharmaceutical, personal care and food safety industries.

*The RiboPrinter® system generates a RiboPrint® pattern which is used to provide taxonomic identification (Genus species) of unknown isolates by an automated comparison to the onboard DuPont database of known patterns (or proprietary custom built databases). RiboPrint® patterns can also be used to characterize strains of a common species.*

### **How the RiboPrinter® System Works**

After you prepare your samples, the automated process begins by lysing cells and cutting the released DNA into fragments via a restriction enzyme. These fragments are separated by size through gel electrophoresis and then transferred to a membrane, where they are hybridized with a DNA probe and mixed with a chemiluminescent agent. A digitizing camera captures the light emission as image data, from which the system extracts a RiboPrint® pattern. This pattern is compared to others in the database for characterization and identification, and the results are automatically printed in a report for your review.



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