



Microbial Characterisation

DuPont Qualicon RiboPrinter® System Updated



DuPont Qualicon RiboPrinter® Database Expanded to More than 6,900 Patterns

The DuPont Qualicon RiboPrinter® Microbial Characterisation System (available from Oxoid in Australia, Europe and Canada) now offers expanded identification capabilities for organisms of concern to the pharmaceutical industry, food industry, public health practitioners and epidemiologists.

With the DUP 2008 database update, the System's libraries now contain over 6,900 RiboPrint™ patterns, representing 219 bacterial genera and over 1,440 species and serotypes including:

- EcoRI - 5,685 RiboPrint™ patterns (including 502 new patterns)
- PvuII - 1,062 RiboPrint™ patterns
- PstI - 203 RiboPrint™ patterns.

Updated taxonomy

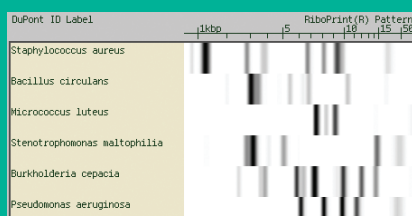
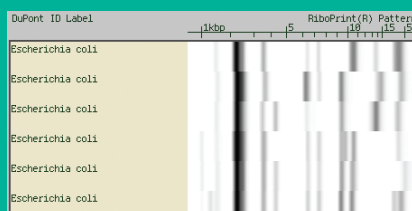
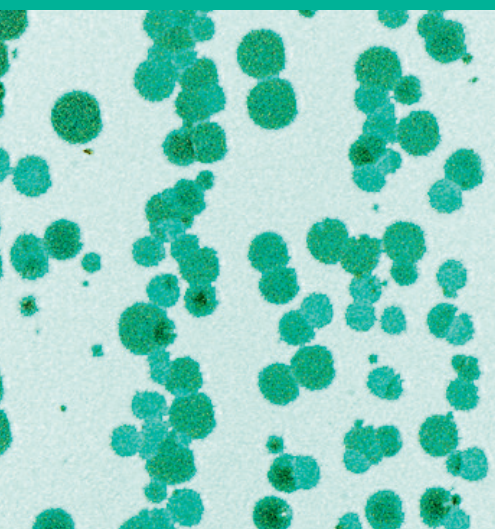
The DUP 2008 database reflects updated taxonomy, in accordance with the International Journal of Systematic and Evolutionary Microbiology, the recognized authority for publishing valid bacterial names. After installing the DUP 2008 update, your existing sample records automatically display the updated taxonomy.

Impact of new patterns on existing records

The addition of 502 new RiboPrint™ patterns to the EcoRI library does not affect existing sample records. If desired, you can compare existing records to the new patterns in DUP 2008 by re-running the identifications.

Realise the benefits

Turn the page to see how the RiboPrinter® system is self contained, reliable and easy to use. Your local Oxoid representative will be pleased to provide any additional information you may require.





DEDICATED TO MICROBIOLOGY

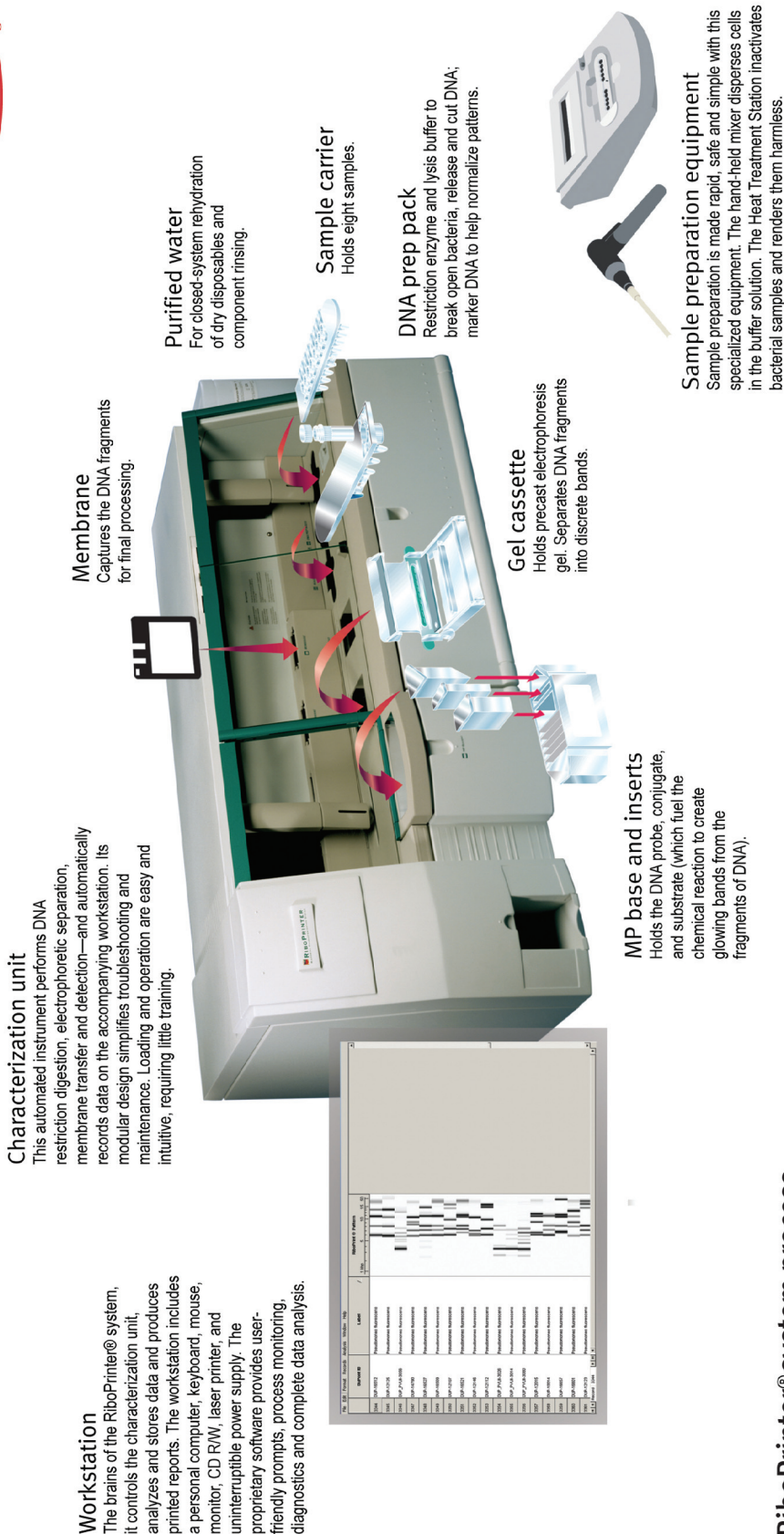
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The DuPont Qualicon RiboPrinter® system is self-contained, reliable and easy to use.



RiboPrinter® system process

- 1 Sample preparation**
This is the only step that takes place outside the RiboPrinter® characterization unit. Pure colonies picked from a plate are inactivated by heat treatment.
- 2 DNA preparation**
DNA is extracted from bacterial cell lysate and cut into fragments by a restriction enzyme.
- 3 Separation and transfer**
The DNA fragments are separated according to molecular size by gel electrophoresis and are then transferred to a membrane.
- 4 Detection**
After hybridization with a labeled DNA probe, a chemiluminescent agent is introduced. The emission of light from the hybridized fragments is then captured by a digitizing camera and stored as image data.
- 5 Data processing**
Using proprietary algorithms, a RiboPrint™ pattern for each sample is extracted from the image data. This pattern is compared to other RiboPrint™ patterns stored in the system to characterize and identify the sample.
- 6 Printed report**
A report that characterizes and identifies the bacterium and includes its RiboPrint™ pattern is automatically printed for your review. Sophisticated data analysis tools allow you to further process the information and share standardized data among your network of users.