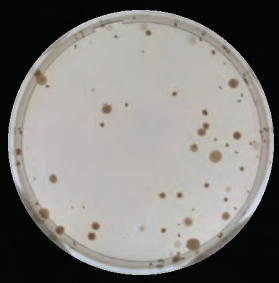
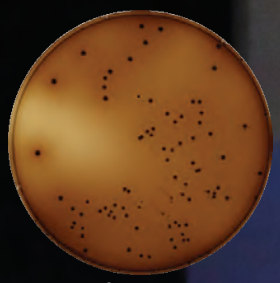
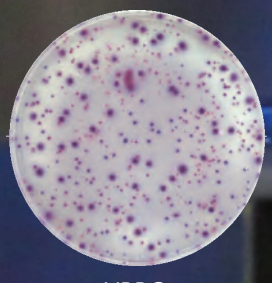
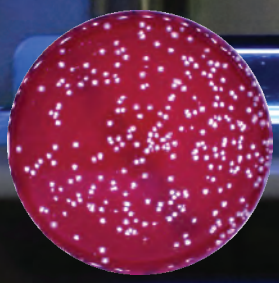
Petrilyzer™

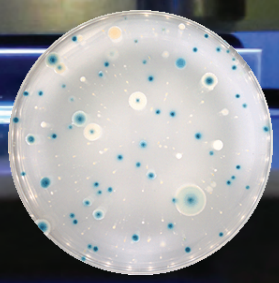
Automatic colony counter and zone size measurements

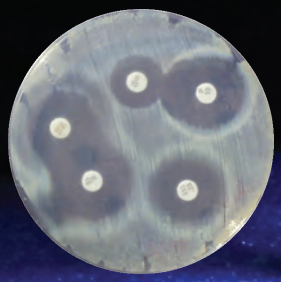

PCA

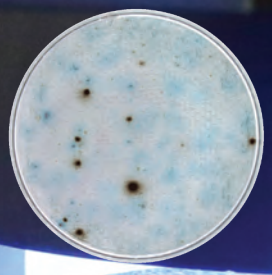

Oxford agar


VRBG


Blood agar

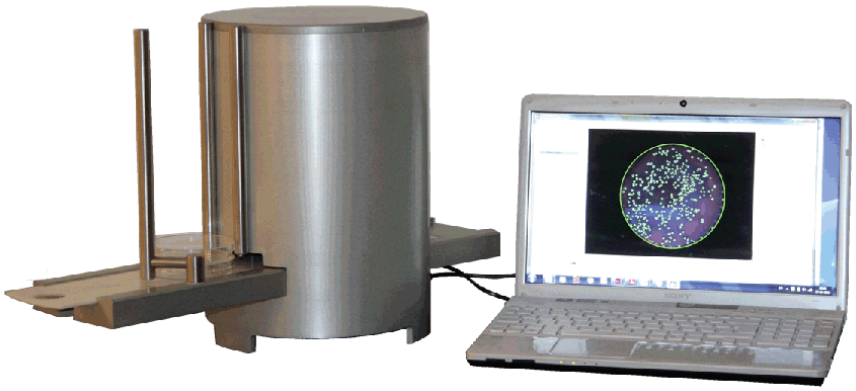

Ecoli


Inhibition zone


YM

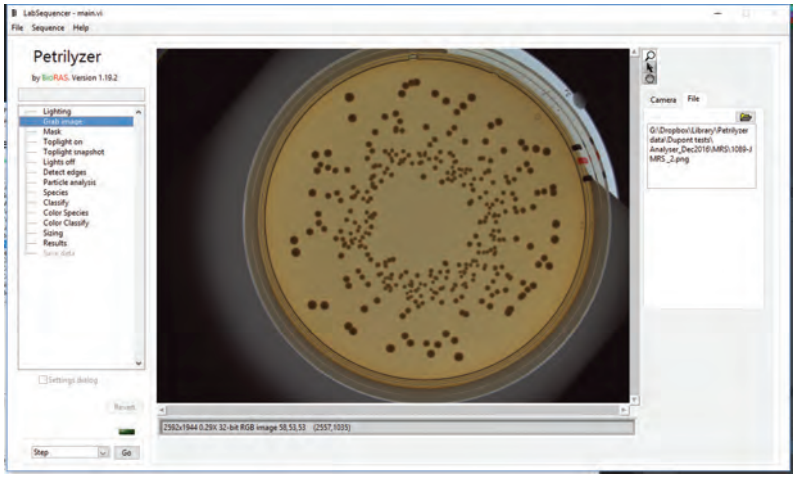

Area of large colonies

Accurate, consistent and efficient analysis of most plate types including pour plates, spread, surface, chromogenic plates and antibiotic susceptibility tests.



Hardware

The closed light box eliminates external light, and the ergonomic design ensure an efficient workflow. Petrilyzer is made out of high quality materials and has a small footprint.



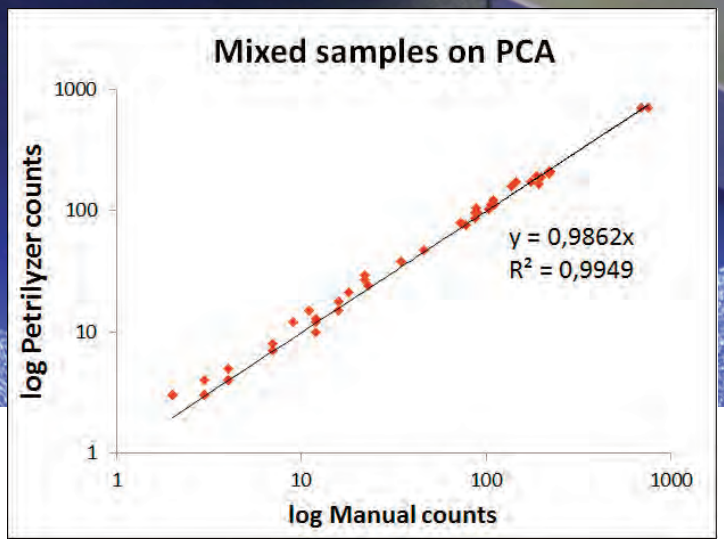
Software

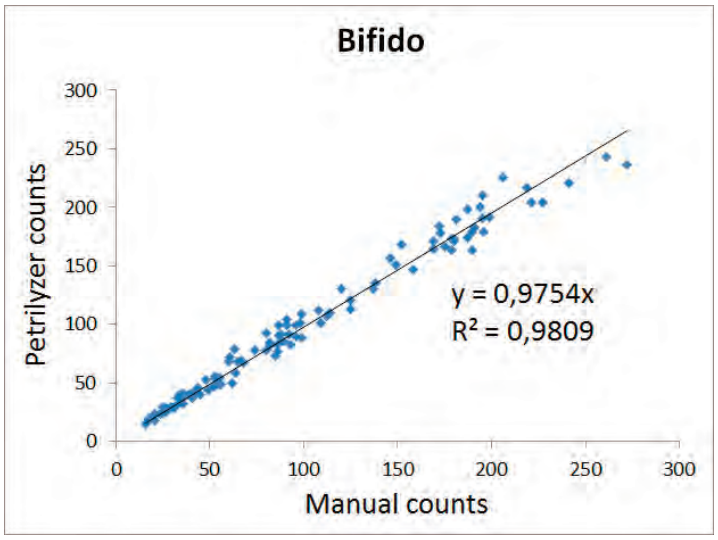
The intuitive and user friendly software interphase fully automates colony counting.

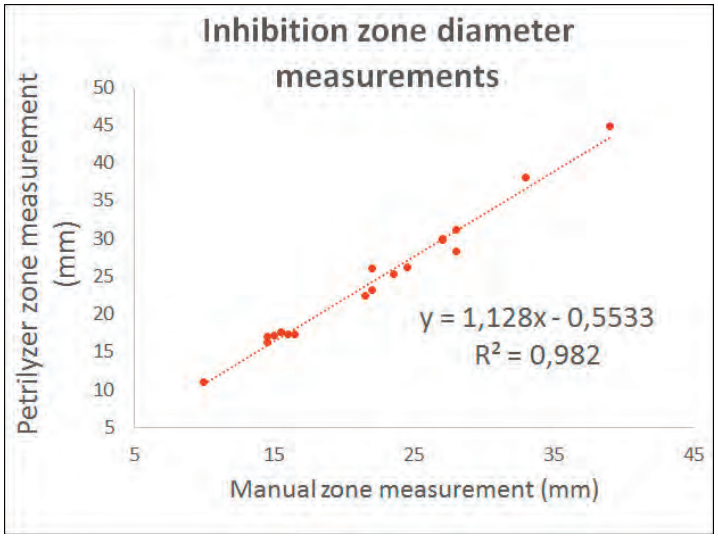
BIORAS
Rapid Analysis Systems for Biology and Life Sciences

Accurate and consistent measurements

Petrilyzer™ ensures objective measurements and traceability for streamlined laboratory workflow far beyond what can be achieved through manual handling alone. With a handling time of a few seconds per plate, time savings up to 90% can be expected.







1 Accurate and consistent measurements

Colony counts and inhibition zone measurements are accurate and reproducible.

2 Fast throughput

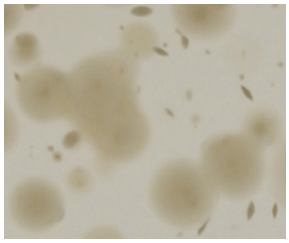
Time savings of up to 90% can be achieved

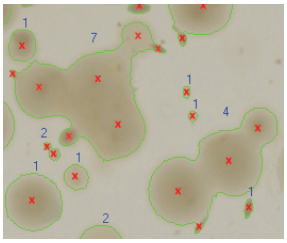
3 Reliable documentation

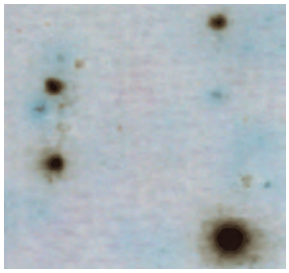
Images and results are automatically saved in spreadsheet and database format

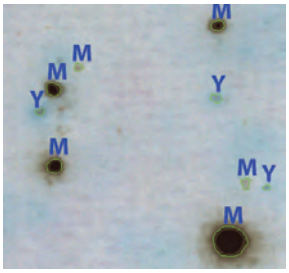
Features

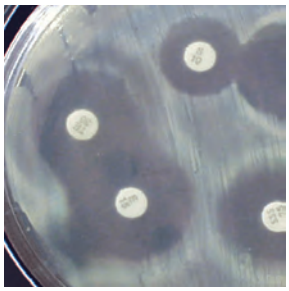
- Most plate types can be analyzed (pour plates, spread plates, surface plates)
- Automatic shape recognition and color classification
- Automatic inhibition zone measurements
- Neural network classifyer for shape and color recognition
- Interactive, customizable configuration of plate type classes
- Barcode reader for plate type and sample identification
- Statistical display of results
- An image of each plate is stored together with the results
- Data is saved in spreadsheet and database format
- Data is stored for audit purposes or FDA 21CFR Part11 compliance
- Optional UV light for detection of colonies on plates with poor contrast
- Accurate measurement of mold and yeast colonies
- Windows compatible

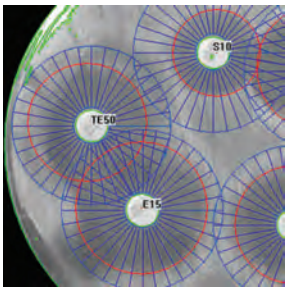


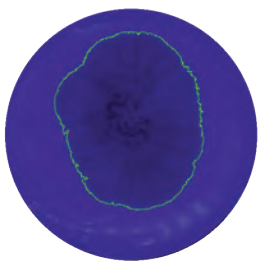












IMPORTANT FEATURES

Separation of joined colonies

Clusters of colonies are identified based on cluster morphology

Shape and color classification

The built in neural network classifies colonies according to shape and color

Antibiotic inhibition zones

Accurate and consisten measurement of antibiotic inhibition zones.

Measurement of colonies with poor contrast

UV light (optional) enhances contrast between e.g. mould colonies and media with low contrast, to enable accurate colony size measurements

Specifications

- Design: Closed device prevents interference from external lighting
- Lighting: Bright-field and dark-field lighting, waterproof LEDs, lifetime more than 10.000 hours. Optional UV lighting is available
- Camera: USB CMOS industrial machine vision colour camera, 5 Megapixel resolution (2560x1920 pixels).
- Resolution: Smallest detectable colonies with standard camera = 45 µm
- Petri dish size up to 90mm diameter
- Hand held bar code reader
- Diameter: 25 cm, height: 34.5 cm
- Weight: 15 kg
- Materials: Anodized aluminium and stainless steel

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Rapid Analysis Systems for Biology and Life Sciences

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