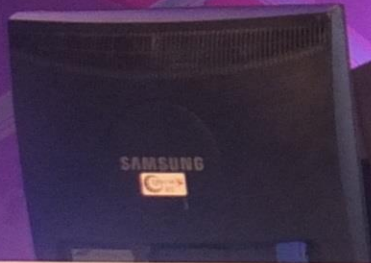


3. Ulusal Klinik Mikrobiyoloji Kongresi-2015

18-22 Kasım 2015



» Pi

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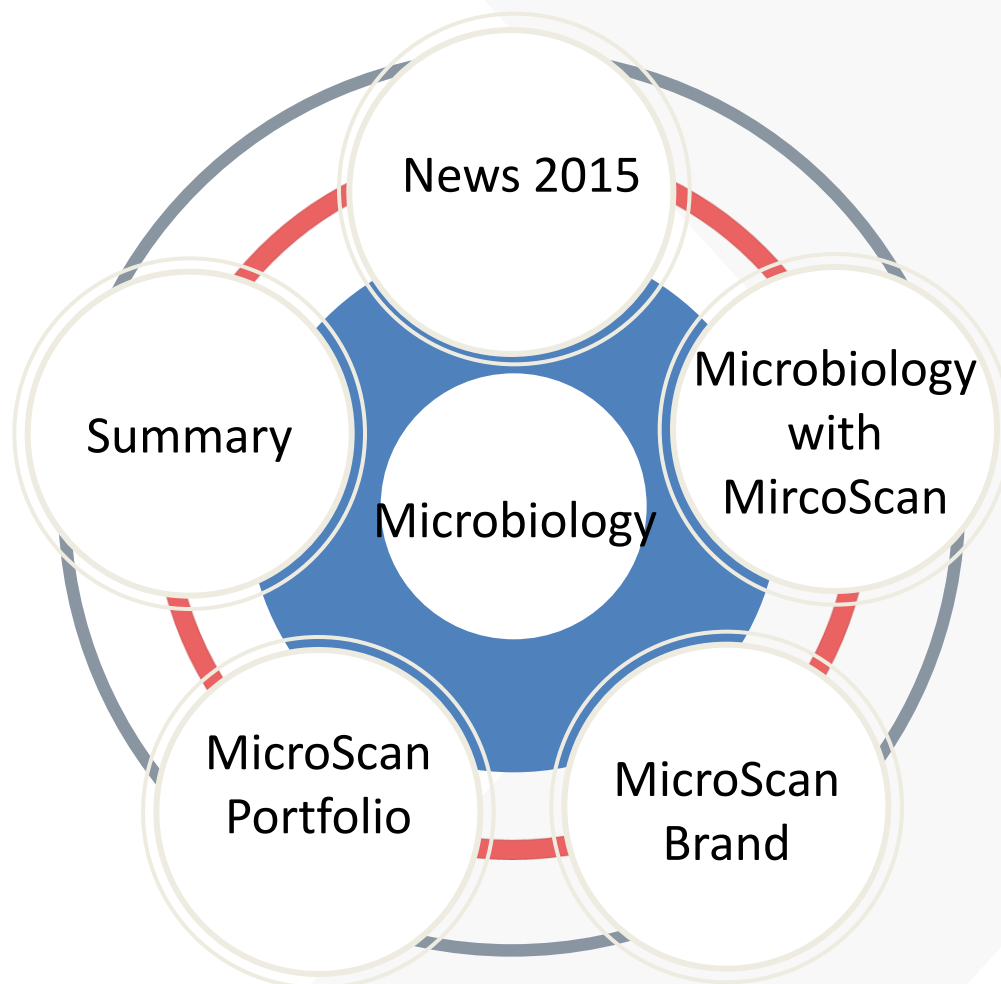


Beckman Coulter Microbiology Introduction

Riaan Dry

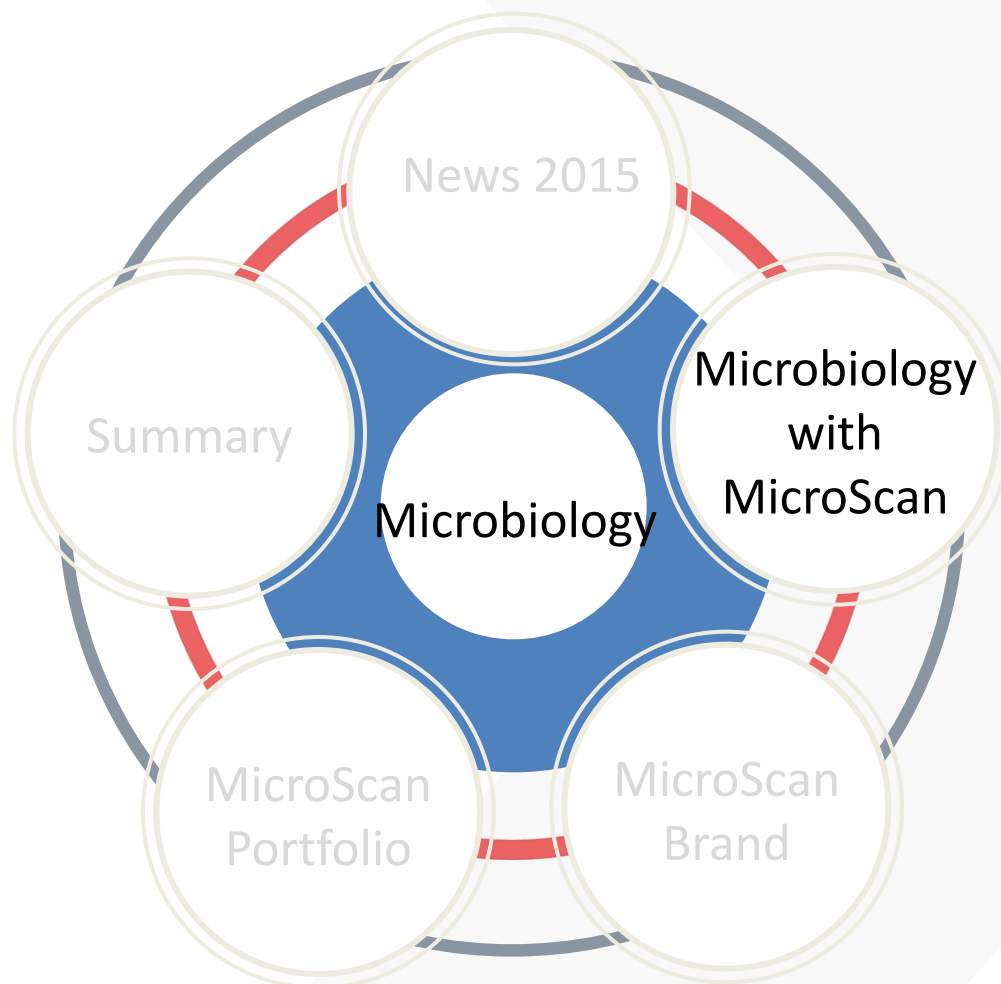
Product Marketing Manager

Immunoassay and Microbiology



Beckman Coulter in the News

Beckman Coulter is pleased to announce that effective 1st February 2015 that MicroScan Microbiology products will become part of Beckman Coulter's broad product portfolio of diagnostic solutions.



What is Microbiology?

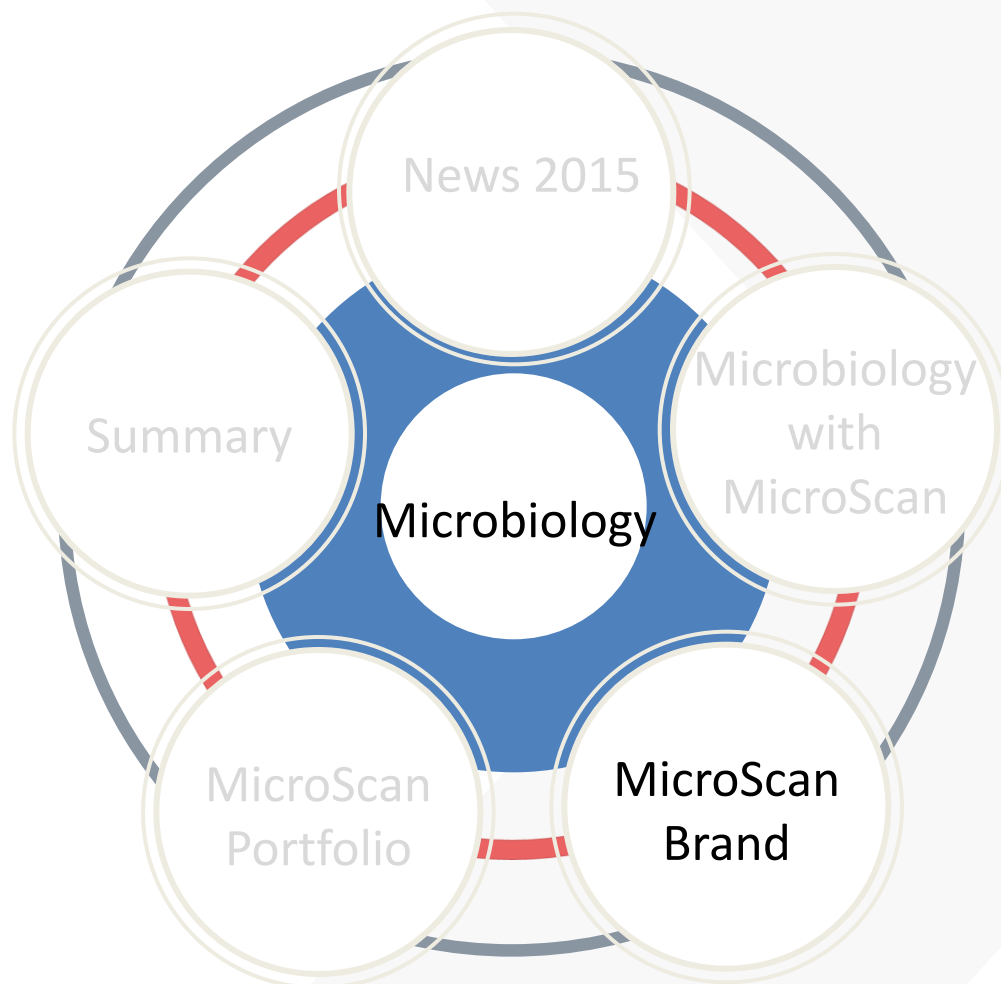
The isolation and identification of bacteria from human clinical samples and the assessment of sensitivity or resistance to anti microbial agents



MicroScan Products in Microbiology

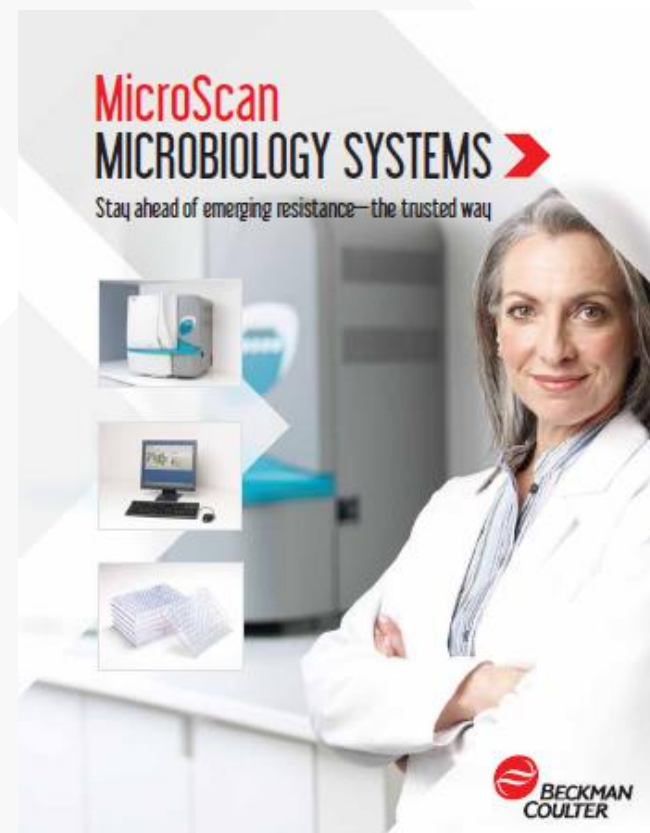
- » ID- Bacterial Identification
- » AST-Antibiotic Susceptibility Testing

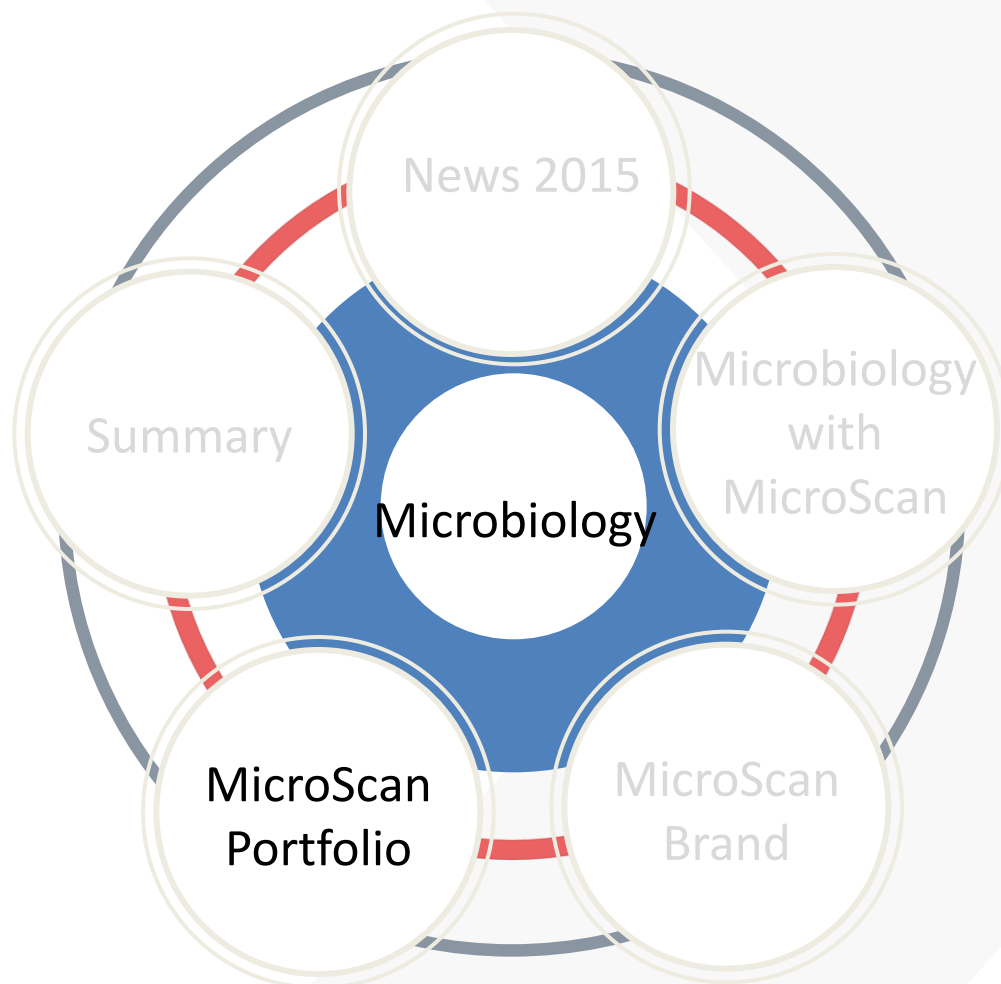




MicroScan as a Brand

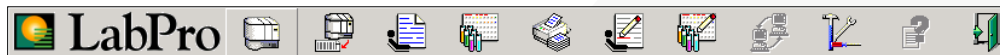
- » **Strong #2 Player** in automated bacterial identification and antibiotic susceptibility testing
- » Over **7000 systems** placed globally in **81 countries**
- » **30 – year** history of innovation
- » **Key partnerships** for Automated Microbiology Solutions
- » Accompanies Beckman Coulter's **strong and long-term relationships** with our customers





What does our products consist of

- » Inoculation prompt allows the picking of colonies
- » RENOK (REhydration/INOKulation) allows to fill MicroScan panels
- » Panels (Microwell plates) which are incubated for ID/AST
- » Microscan system which incubates and reads the plates
- » Lab Pro (Middleware)



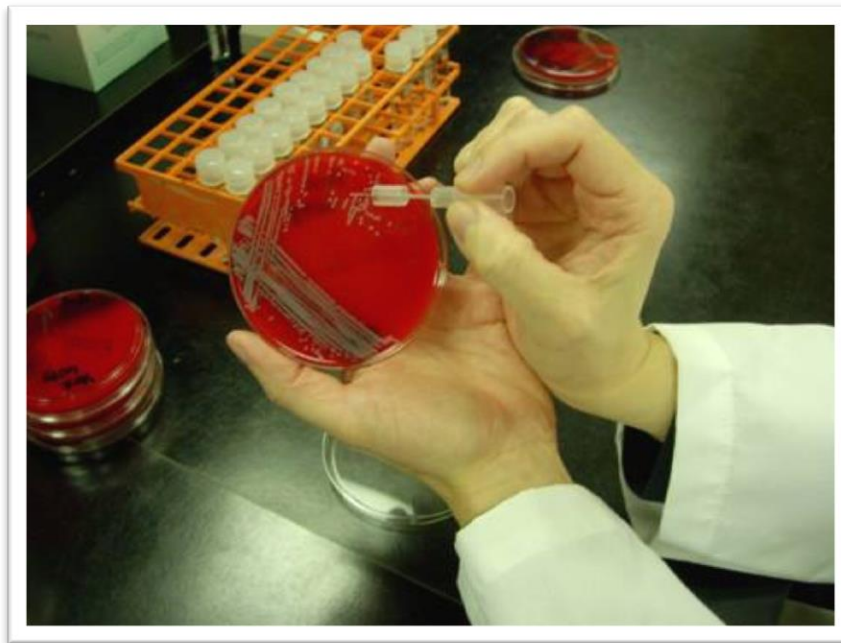
Prompt Inoculation Preparation

- » One step inoculum preparation
 - » Eliminate turbidity dilution step
- » Inoculum stable for 4 hours compared to turbidity preparations which is recommended for 30 minutes
- » Requires fewest number of isolated colonies
- » Less likely to pick mixed culture
- » Easier than creating a 0.5 McFarland-based turbidity inoculum



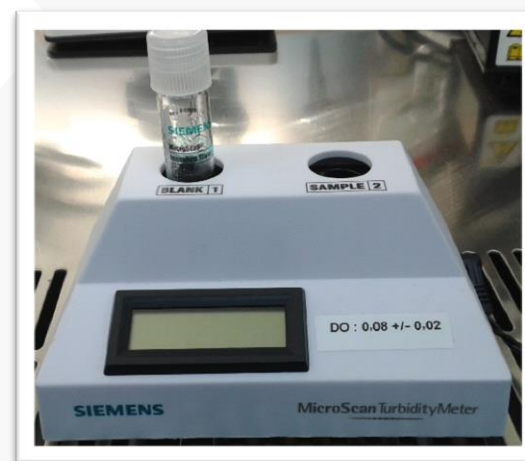
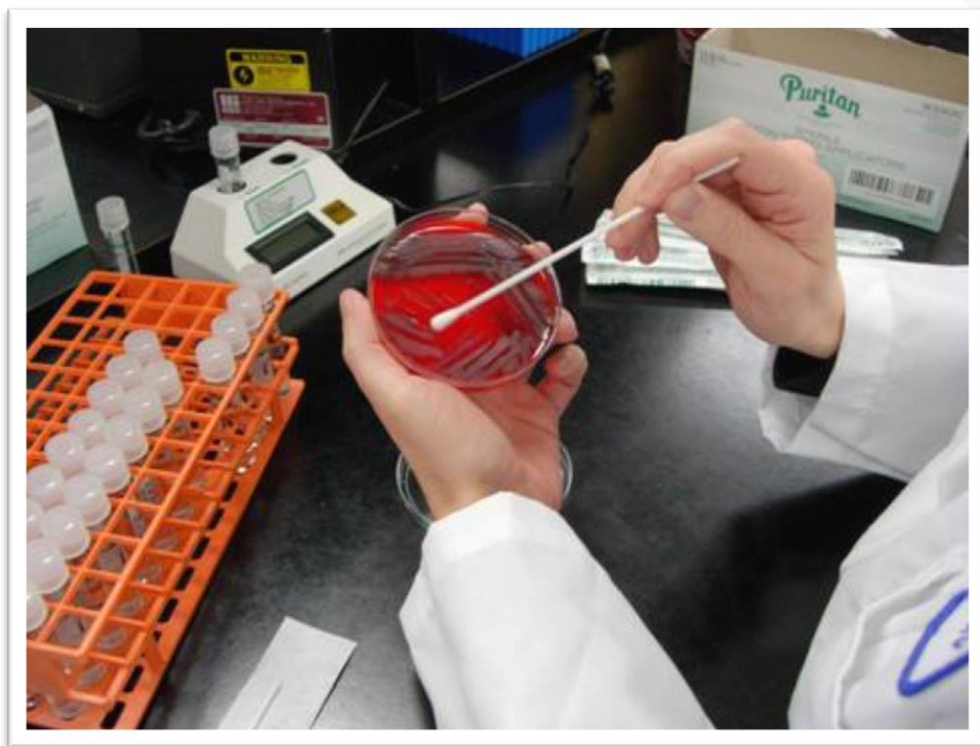
MicroScan Panel preparation

- » Pick 3 colonies with a diameter at least equivalent to the Prompt



MicroScan Panel preparation

- » The suspension can be done by Turbidimetry : 0.5 McF



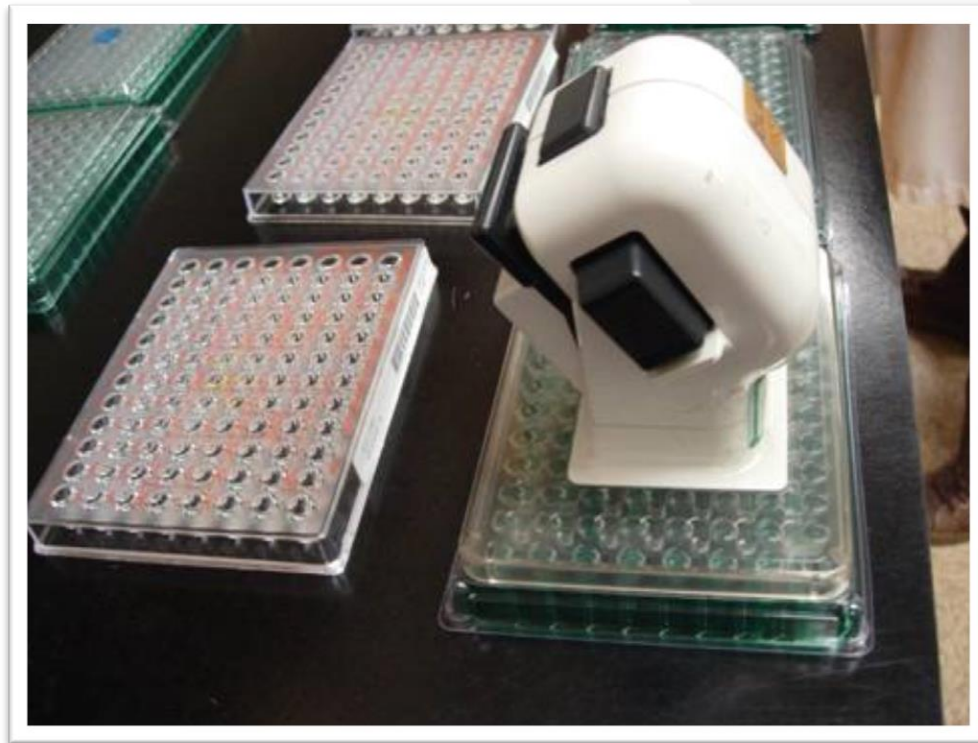
MicroScan Panel preparation

- » The suspension is transferred to Inoculator tray



MicroScan Panel preparation

- » In one step RENOK (REhydration/INOKulation) allows to fill MicroScan panel (115 μ l in each well, 96 wells per panel)



MicroScan Panel preparation

- » Panel is loaded in WalkAway for incubation and reading



MicroScan Dried Conventional Panels

Accuracy is Speed

- » Dried Microwell panels
- » Types of panel formats
 - » ID only
 - » AST only
 - » Combo (ID/AST)
 - » Breakpoint and MIC antibiotic dilution series
- » Shelf life of one year from date of manufacture
- » Can be stored at room temperature (2 – 25C)



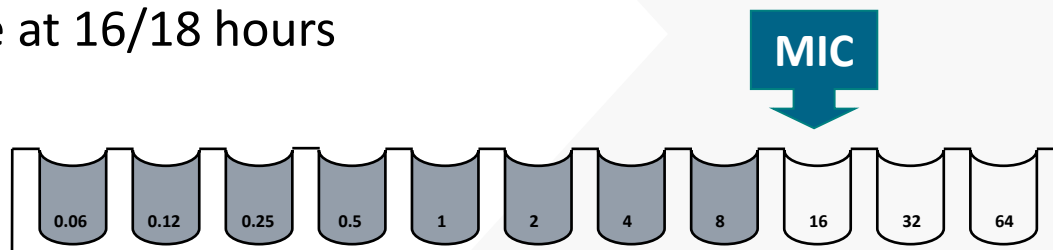
MicroScan Dried Conventional Panels

» ID section

- » Based on classic biochemical tests
- » Visual read or instrument read
- » Biotype calculated based on positive & negative reactions
- » Most IDs available at 16/18 hours



» AST section



- » Multiple antibiotics per panel in breakpoint or MIC
- » Direct MIC ...what you see is what we report
- » MIC values are not dependent upon organism ID
- » The dilutions on the panel are the MICs reported
- » Resistance testing in panels i.e. ESBL detection and confirmation

MicroScan COMBO Panels (ID + AST)

Positive and negative controls

Characters for ID
(Biotype)

Antibiotics tested with
increasing dilutions

Locator well

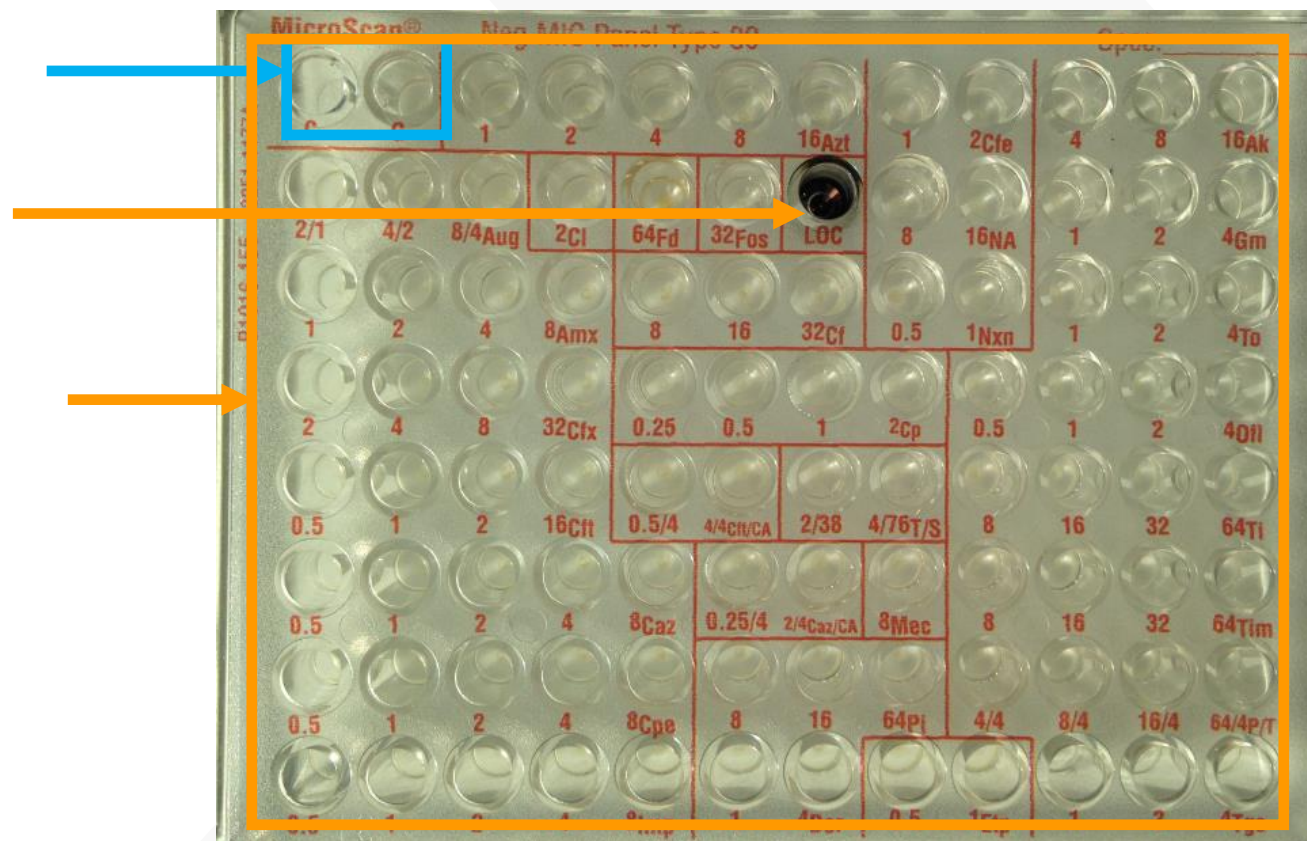


MicroScan MIC Panels (AST Only)

Positive and negative controls

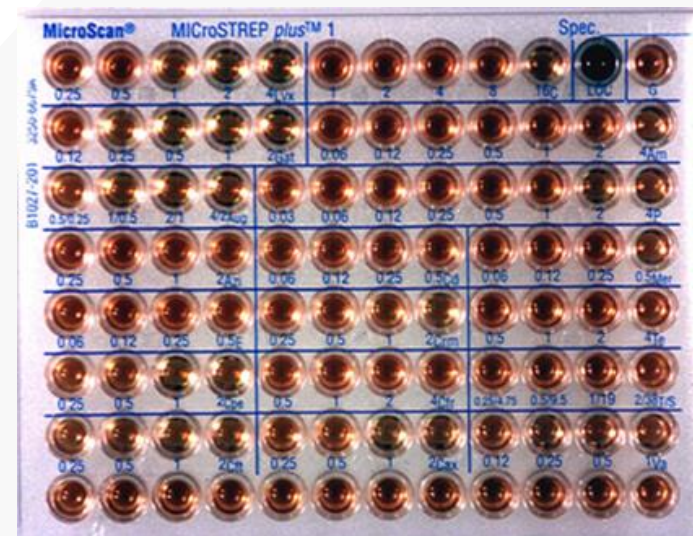
Locator well

Antibiotics tested with increasing dilutions



MICroSTREP plus panel

- » Supports susceptibility testing of all non-enterococcal streptococcus isolates
- » Dried panel with 2 -25° C storage and 12 month shelf-life from date of manufacture
- » Inoculation broth (2-8° C storage)
 - » 3% Lysed Horse Blood (LHB)
 - » 6 month shelf life
- » Turbidity inoculation setup method only
- » 20 hour read time



4 Hour Chromogenic ID Panels

- » Provide rapid identification of more fastidious organisms.
- » Three types of panels
 - » Haemophilus/Neisseria Identification (HNID)
 - » Yeast
 - » Anaerobe
- » Inoculum preparation is turbidity (density varies by panel type)
- » Panels inoculated manually without use of RENOK
- » All can be incubated off-line and interpreted manually
- » HNID & Yeast panels can also be processed on WalkAway and autoSCAN-4 instruments

Rapid Fluorogenic Panels

- » Gram-negative and Gram-positive ID
 - » Rapid Negative ID 4 requires no reagents
 - » Rapid Positive ID 2 requires no reagents
- » 2 to 2.5 hour IDs
- » More comprehensive database than the conventional panel database
- » Shelf life of one year from date of manufacture
- » Refrigerated storage
- » Turbidity inoculum preparation

MicroScan Systems

High Volume

- WalkAway® 96 *plus* System
- Multiple instrument systems

Moderate Volume

- WalkAway® 40 *plus* System

Low Volume

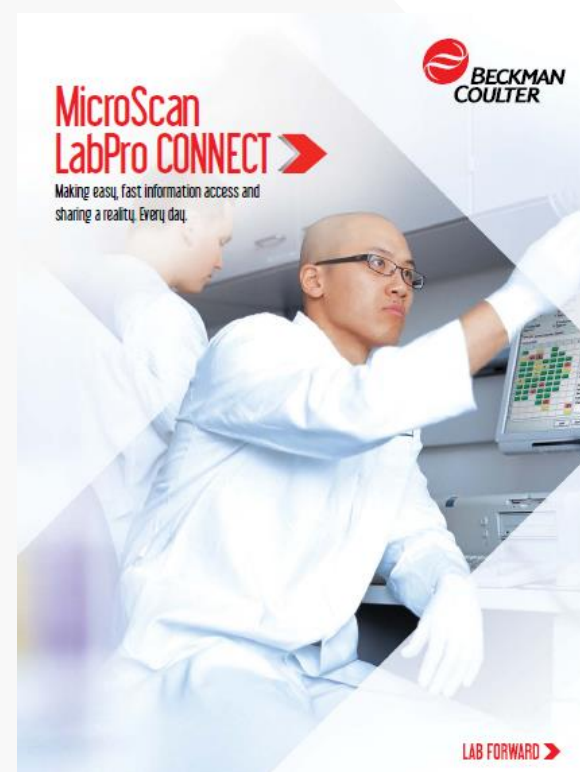
- autoSCAN®-4 System
- Microdilution Viewer

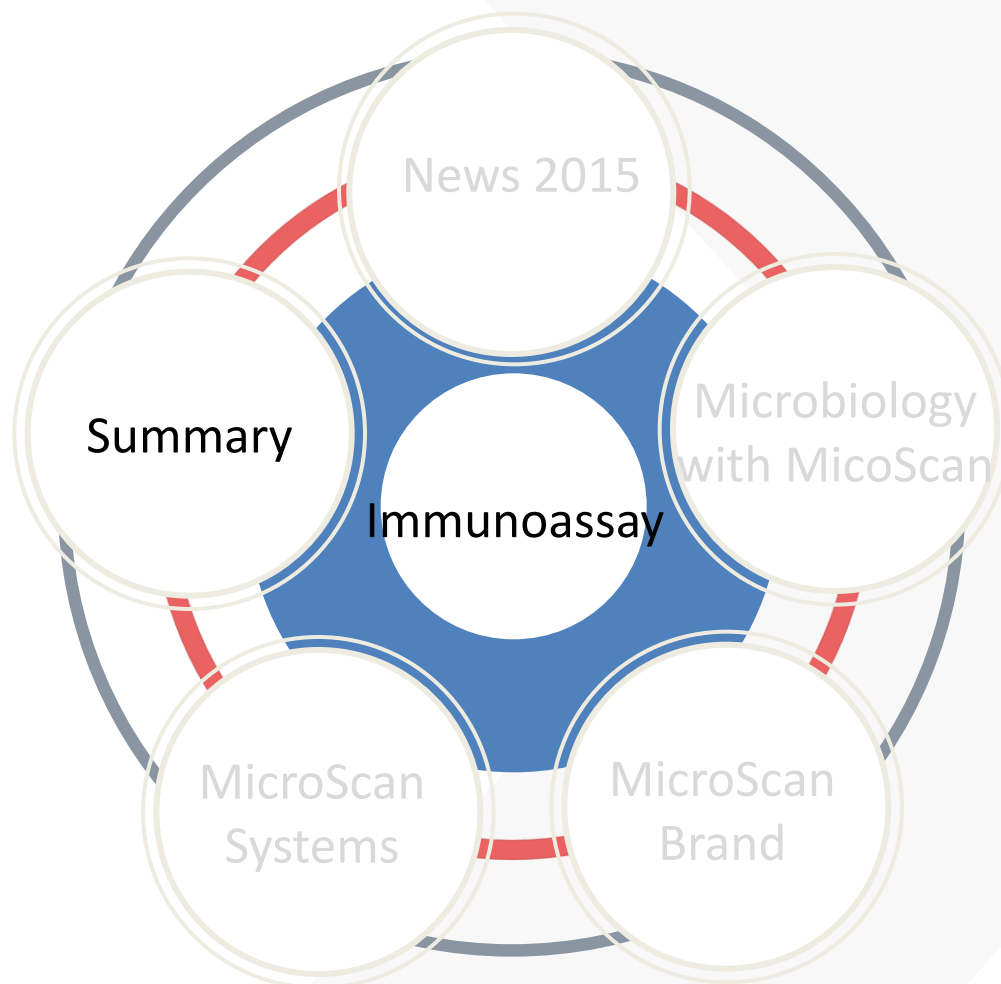


MicroScan Data Management

Powerful data management & connectivity

- » LabPro Alert_{EX}: Customizable and flexible delivering clinical impact
- » LabPro Connect: Networking solutions improving productivity
- » LabPro MBT: connects Rapid ID results from Bruker Biotyper with accurate AST results from MicroScan





In Summary

» **Our Vision:**

With Microbiology as part of our portfolio we as Beckman Coulter are truly dedicated to our vision to Advance Healthcare for Every Person

» **MicroScan Brand and Partnerships:**

Strong Player in automated bacterial identification and antibiotic susceptibility testing with over 30 years of innovation in Microbiology Automation Solutions

» **Clinical Microbiology Trend:**

MicroScan meets the increasing demand for efficiency at a decreased cost

» **Choice:**

- » Multiple automated solutions
- » Select from panel multiple formats to support your unique needs
- » Direct MIC technology, growth-based, non-ID dependent
- » Gold Standard accuracy

Questions?

Riaan Dry
Product Manager
Immunoassay and Microbiology