

Radian®

Pushing Antimicrobial Susceptibility Testing at full speed





Radian®

Radian® is the complete solution to automate and interpret Disk Diffusion Antibiotic Susceptibility Testing.



Disk Diffusion AST

Bringing Disk Diffusion back to the future

Disk diffusion is the only AST method that enables microbiologists to provide appropriate treatments more efficiently and based on reliable inputs:

- *Detectable heterogeneous growth*
- *Visible colony morphology*
- *Observable antibiotic interactions*

This enables microbiologists to adapt antimicrobial therapy more rapidly. Radian® maintains the original benefits of Disk Diffusion while avoiding the disadvantages of manual plate preparation and interpretation.



Radian® RAST

Knock down your AST incubation time!

A fast time to result is crucial in the treatment of critical patients. Integrating EUCAST Rapid AST Rules (R-AST) into the automated workflow, Radian® is the first fully automated solution to provide accurate therapy indications from positive hemoculture starting from a four-hours incubation.

Are you processing critical samples other than positive hemocultures? Thanks to the Expert System's fully customizable incubation times, you can now provide treatment indications with the incubation times that best fit your lab's workflow.



Cost saving



Early antibiotic therapy



High patient value



Hardware and software teamwork

Radian® In-Line Carousel

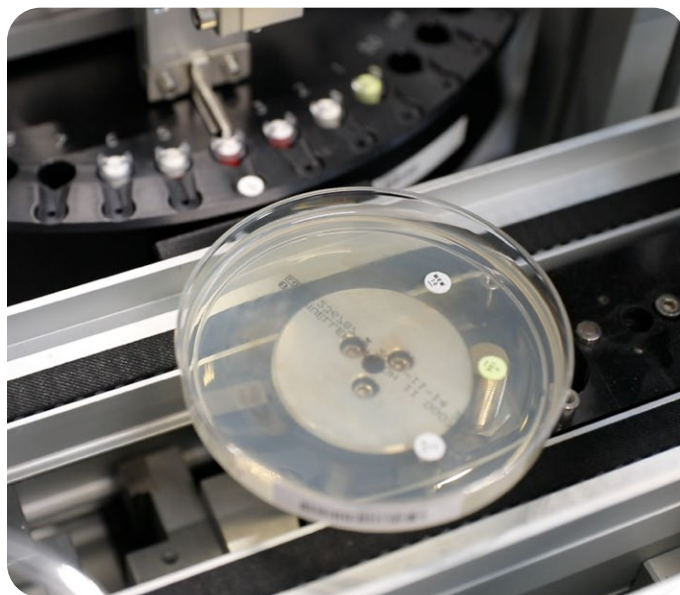


Radian® In-Line Carousel

Hardware module for Antibiotic Disk Dispensing

Radian® In-Line Carousel automatically applies ATB disks on plates streaked by WASP®, allowing to process other samples while the disks are deposited and therefore optimising the throughput of WASPLab®.

- *Disk deposition integrated check*
- *Flexible ATB Configuration*
- *Parallel conveyor*
- *Dual hepa filter*



Flexible ATB testing

Adapt the automation to your changing needs

Thanks to its 50 position ATB wheel, and the possibility of choosing from 1 to 8 disks deposit protocols, Radian® In-Line Carousel is the most flexible AST testing platform.

Hardware and software teamwork

Radian® Expert System

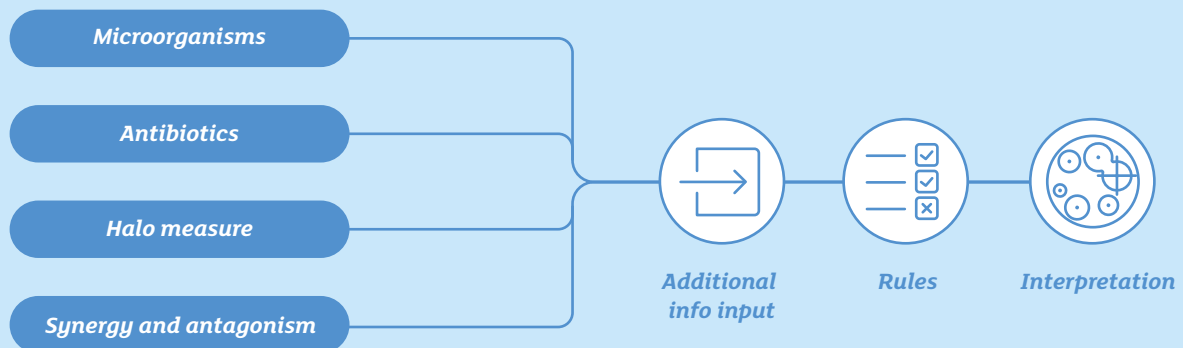
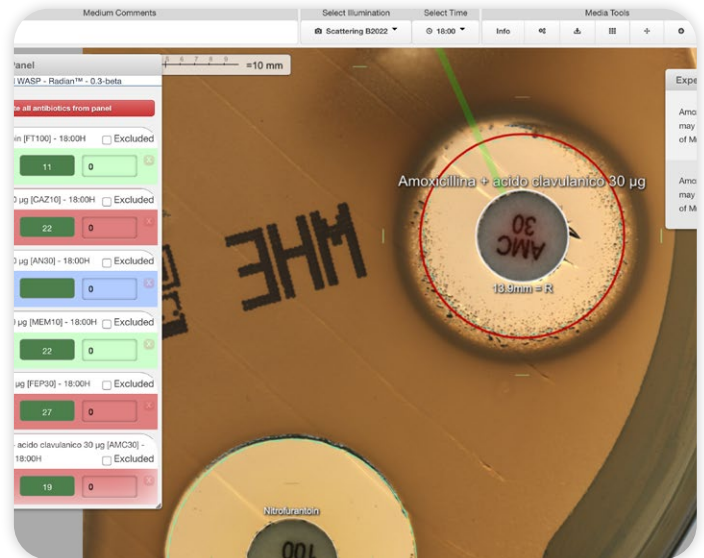
Radian® Expert System

AI Based SIR Interpretation

Radian® Expert System is a fully integrated and customizable solution for AST automated SIR interpretation.

Thanks to a proprietary Halo Recognition Algorithm and the connection with the LIS, Radian® Expert System allows a fast results interpretation.

- Customizable rules
- User-friendly interface
- Rapid rules available
- Fast interpretation

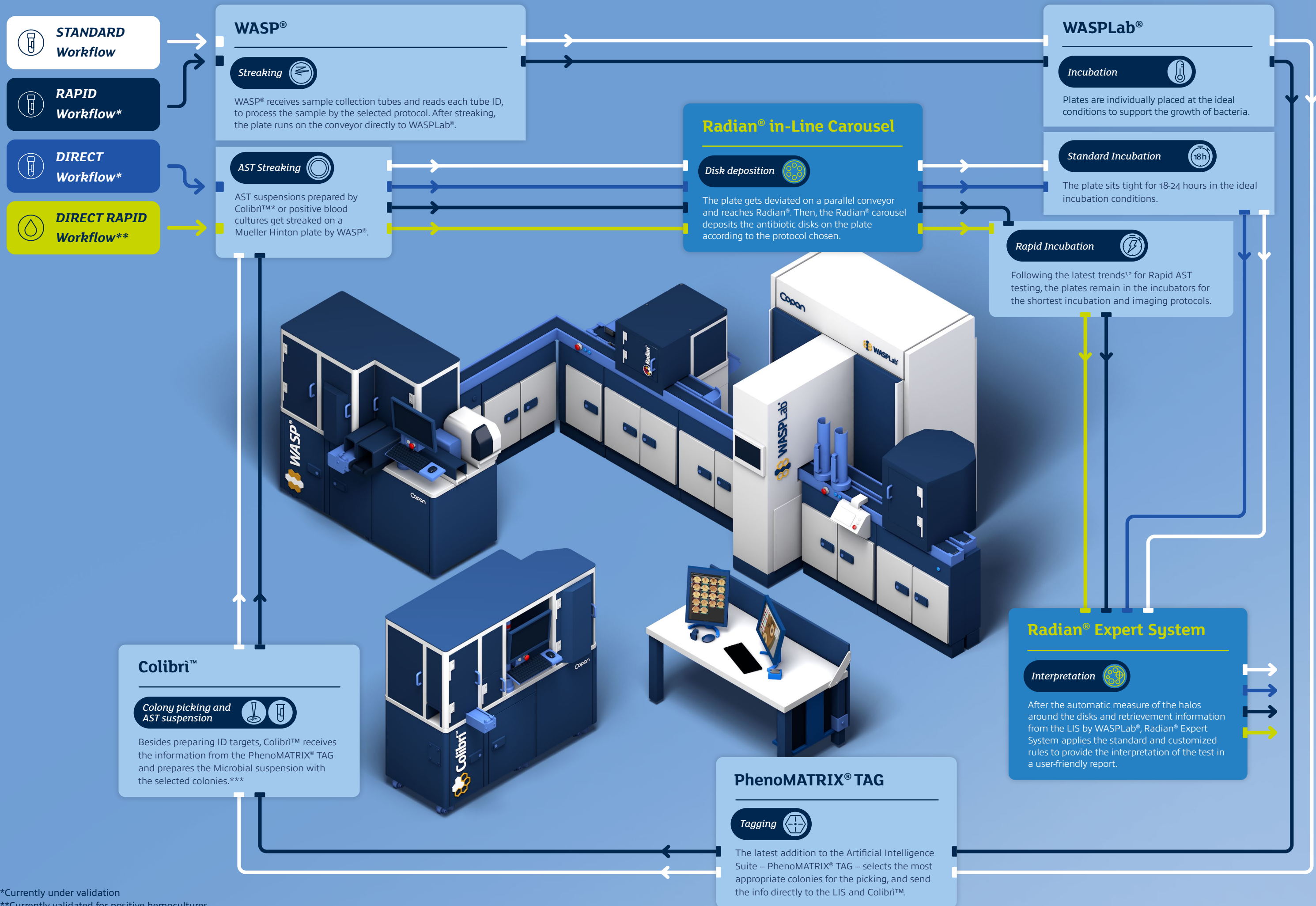


Uncover the full Digital Bacteriology potential

Superior plate Imaging is the key for a reliable R-AST

Make the most of your WASPLab® telecentric high-definition camera by using plate images in combination with the Halo Recognition and the rapid AST rules for many specimens types - including positive hemocultures.

The digital images are essential to allow the halo readings at precise timepoints.



*Currently under validation

**Currently validated for positive hemocultures

***Soon available. Contact Copan for further details.

Benefits

How Automated Disk Diffusion makes a true difference in your routine



Improve your workflow

Radian® performs AST antibiotic disks application on WASP®-seeded plates, followed by automated incubation, plate digital imaging, and interpretation.



Raise your standards

Radian® categorizes antibiotic susceptibility results using EUCAST/CLSI updated rules, laboratory RAPID expert rules, and EUCAST RAPID rules to allow the possibility of performing Rapid Antibiotic Susceptibility Testing (R-AST).



Customizable and user friendly

Through the easy and intuitive graphic interface, the operator can report fast, consult the data readily, and autonomously customize Radian® Expert System.



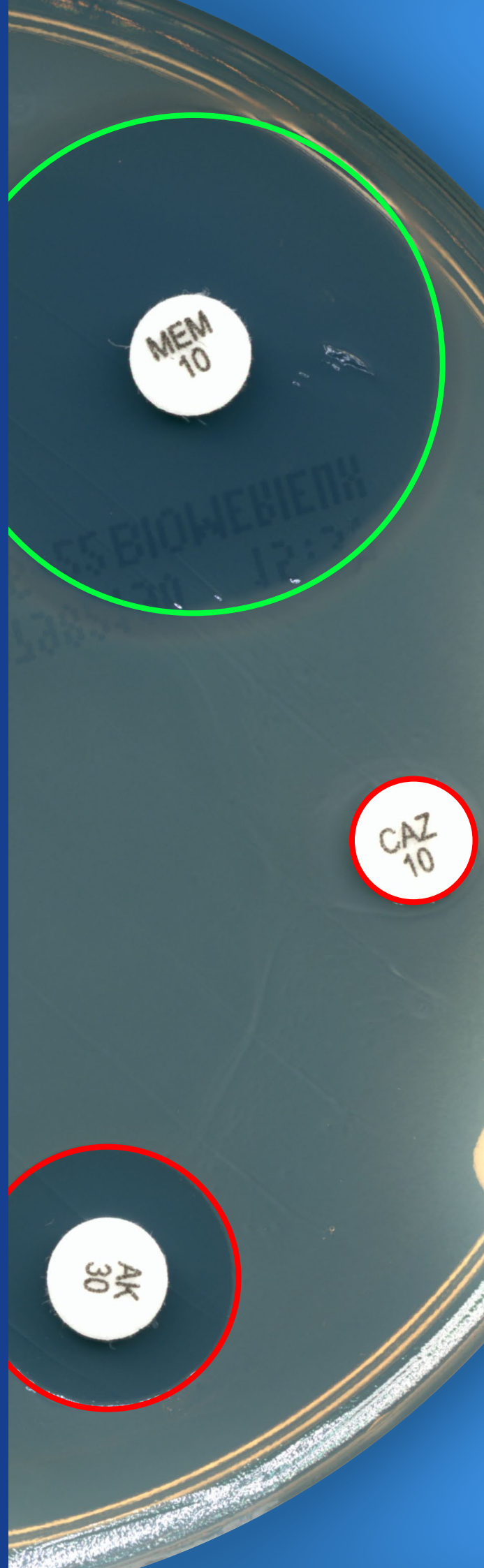
Dive into the data

The integration with LIS allows complete traceability and the possibility to evaluate patient data, to support the microbiologist in the treatment choice.



Faster and meaningful results

Efficiency, scalability, TAT reduction, standardization and resource optimization: the transition to an automated lab is a radical step that will change the whole perspective on the future of every lab.



Fields of application

Prenalytics made different



MultiDrug Resistant
Organisms



Blood stream
infections



Urinary
infections



Hospital Acquired
Infections

Liquid-Based Microbiology

Radian® best allies

Laboratory automation is only a part of Copan's comprehensive approach to Prenalytics. Our line of liquid-based microbiology collection and transport devices unlocks Radian® full potential.

 eSwab®



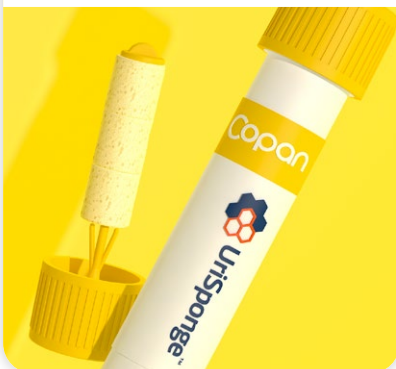
 FecalSwab®



 BC+™



 UriSponge™



 SLsolution™



 LBM® Broth



Technical informations Radian® Expert System

Radian® Expert System > WLAB-RADIAN-EXSYS

- The EUCAST/CLSI rules of the latest available EUCAST/CLSI version, and the possibility to customize antibiotic/ microorganism/ breakpoints/ rules
- The EUCAST/CLSI standard AST workflow provides preparation of AST samples using the colony suspension method and the reading/interpretation of the plates after 18h incubation

Radian® Expert System RAST > WLAB-RADIAN-EXSYS-V2

Everything in WLAB-RADIAN-EXSYS, plus:

- The EUCAST Rapid AST directly from blood culture rules of the latest available EUCAST/CLSI version and the possibility to customize rules
- This flow provides the direct inoculation of Positive Blood culture on the AST plates and reading/interpretation of the plates after 4-6-8h incubation
- The possibility to add custom breakpoints and rules applied to different custom samples (other than Blood cultures) and at different custom incubation time slots.

Technical informations Radian® In-Line Carousel

Dimensions	Noise Emissions	Weight	Thermal Output	Peak Power Consumption
<i>W 1360 D 837 H 1662</i>	<i>Max 53.9 Db</i>	<i>285 Kg</i>	<i>2081 BTU</i>	<i>700 W</i>

Scientific references

All the studies we cited in this product focus are listed here.

1. Cherkaoui A, Renzi G, Azam N, et al. Rapid identification by MALDI-TOF/MS and antimicrobial disk diffusion susceptibility testing for positive blood cultures after a short incubation on the WASPLab. *Eur J Clin Microbiol Infect Dis*. 2020 Jun;39(6):1063-1070.
2. Cherkaoui A, Schorderet D, Azam Net al. Fully Automated EUCAST Rapid Antimicrobial Susceptibility Testing (RAST) from Positive Blood Cultures: Diagnostic Accuracy and Implementation. *J Clin Microbiol*. 2022 Oct 19;60(10):e0089822.



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