



Thermo Scientific Sensititre
Susceptibility and Identification System



Customizable testing solutions
maximum performance

Thermo
SCIENTIFIC

True MIC results

the key to battling resistance

The Thermo Scientific Sensititre System is a leader in antimicrobial susceptibility and identification (AST/ID) testing, offering flexible, customizable testing options to accommodate laboratories of all sizes.

The Sensititre™ System utilizes true MIC results, versus extrapolated [MIC] results, essential to fighting antimicrobial resistance for a number of reasons:

- Greater sensitivity; provides better antimicrobial resistance tracking
- Best measure of antibacterial effect; can assist with therapeutic choices
- Preferred microbroth dilution test method
- Superior quality and reproducibility for accurate results the first time, eliminating offline tests and retests



The Sensititre System is the *only* system that utilizes true MIC results, crucial in the fight against antimicrobial resistance.

More antimicrobials, more testing options

The Sensititre System utilizes 96-well microtitre plates, available in both standard and custom formats, with in-vitro diagnostic (IVD) or research use only (RUO) markings. With over 240 antimicrobials available in extended dilution ranges on a wide variety of formats, the Sensititre System allows you to eliminate supplementary offline tests while meeting FDA, CLSI and EUCAST breakpoint requirements.

Customizable testing for your unique needs

The Sensititre System offers the largest selection of FDA-cleared antimicrobials to meet your formulary. In addition, Sensititre MIC plates can be customized for use with FDA, CLSI or EUCAST recommendations. Combined with flexible equipment options, the Sensititre System allows you to create the ultimate test program tailored to your laboratory's unique needs.

Eliminate offline tests, reduce costs with MIC plates tailored to *your* formulary

The Sensititre System allows you to design a custom plate with over 20 antimicrobials on a single format, eliminating offline tests (Etest®, Kirby-Bauer) and reducing your cost per test. Sensititre custom plates can match almost any formulary, and flexible batch sizes allow you to make updates as your formulary changes.



Create your own MIC plates based on your formulary, your dilution ranges, and your patient population, for a truly customized test program.



greater flexibility

Accurate, timely results

"Sensititre plays a significant role in making our laboratory a recognized leader in providing accurate and timely microbiology services."

Best technology, lowest cost per test

"We chose the Sensititre System because it provided us with the easiest set up options, best microbiology technology for accurate results, and the overall lowest cost per test."

References available upon request

Detect emerging resistance

"The most important factors for our laboratory were availability of necessary drugs and appropriate dilution ranges. Sensititre MIC plates are accurate and able to detect emerging resistance."

A unique system

"The technology associated with Sensititre, as well as the ability to have custom plates, really make Sensititre a unique system."

trusted results

Reduce cost per test

The latest antimicrobials on multi-isolate formats

The Sensititre System offers a number of standard MIC plate formats, with IVD/CE markings or RUO designations to ensure excellent quality and consistent results.

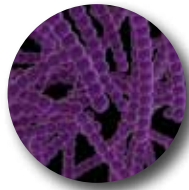
Along with FDA clearance for testing *Streptococcus* spp., *Haemophilus influenzae*, *Candida* spp., and aerobic nonfastidious Gram-negative and Gram-positive organisms, the Sensititre System provides CLSI-recommended methodology for testing *Cryptococcus neoformans*, *Aspergillus*, *Campylobacter**, aquatic organisms, anaerobes and *Mycobacterium**, including rapid*, slow* and *Mtb**.

Gram-positive plates

- Monitor resistant organisms, such as MRSA, VRSA, VISA and VRE
- Fewest limitations for *Enterococcus* spp. and *Staphylococcus* spp.
- FDA-cleared all-in-one plate offers numerous antimicrobials, including daptomycin, as well as D-test and cefoxitin screen
- FDA-cleared *Streptococcus* spp. plate for manual or automated reading with the ARIS 2X

Gram-negative plates

- IVD format includes extended cephalosporin and carbapenem ranges. RUO format includes colistin and polymyxin B
- Three-isolate urine panel includes nine antimicrobial options



The FDA-cleared Gram-positive all-in-one plate (Part No. GPALL1F) features D-test and a cefoxitin screen, allowing laboratories to eliminate additional offline test procedures required to detect resistant organisms.

YeastOne™ plates

- Colorimetric alamarBlue™ agent provides reliable and consistent endpoint determination, with visual read option for yeast and filamentous fungi*
- Available in dual-isolate IVD format for *Candida* spp., and single-isolate* format, including anidulafungin*, caspofungin and micafungin*

Mycobacterium tuberculosis plates*

- Twelve first and second-line antimicrobials on a single plate
- 10–14 day time-to-results
- Easy set up and incubation requirements, with manual viewbox or Vizion™ read options



The YeastOne plate's easy set up procedure eliminates the time-consuming macrobroth dilution method.

High performance for low-volume testing

Microbroth dilution testing is a great alternative to disk diffusion methods, eliminating inaccuracies with easy-to-read endpoints. If you want to take advantage of the superior performance of Sensititre plates, but don't have the volume to justify automation, plates can be inoculated with our multichannel pipette and read manually with a mirrored viewbox.

For low-volume laboratories, plates can be inoculated with the Sensititre Multichannel Pipette.



The Sensititre Nephelometer provides an inexpensive solution to standardize inoculum density.



Why Sensititre.?

The most FDA-cleared antimicrobials

"Sensititre was one of the first to incorporate the broth microdilution D-test and cefoxitin screen, and the drug tigecycline on MIC panels, giving our lab immediate access to the latest antimicrobials."

Flexible batch sizes for better cost control

"We have added custom three-isolate plates for urinary isolates that better suit our outpatient formulary guidelines. I don't believe any of the other AST/ID vendors would have been able to provide a custom product at our volumes, at the same price as other standard product."

Reference available upon request

greater choice, better value

Full automation: consolidate *all* susceptibility testing on a single platform



Thermo Scientific Sensititre ARIS 2X System. The ARIS™ 2X System is a fully automated, benchtop incubating and reading system that reduces workload and facilitates efficient workflow. It can accommodate 64 MIC, breakpoint or identification plates, for a combination of 192 possible tests on a single instrument.

- Heated carousel individually incubates all plates, ensuring optimal growth conditions and eliminating repeat tests
- Plate-specific barcodes allow user to load or unload tests at any time, in any location



Thermo Scientific Sensititre AIM Automated Inoculation Delivery System. The Sensititre AIM™ System quickly and accurately doses most 96-well plates, eliminating both skipped wells and costly repeat tests.

- Compact, user-friendly design minimizes benchtop footprint
- Provides flexible storage and accessibility, while conserving valuable laboratory space
- Icon-driven, touch-screen facilitates quick dosing selection, for simple, intuitive operation

Reliable, cost-effective automation

“The ARIS 2X System does not extrapolate MIC results; it provides a true MIC result that can be read automatically and visually. There is just no comparison for a truly mess-free, closed system which requires no maintenance or reagents.”

“We have consolidated the majority of our isolates on the ARIS 2X System using just four susceptibility plates. The ARIS 2X System provides results that are reliable, reproducible and cost-effective.”

References available upon request



Semiautomation: flexible technologies enhance manual methodologies

Thermo Scientific Sensititre OptiRead Automated Fluorometric Plate Reading System.

OptiRead™ fluorescence technology provides fast, accurate plate reads, maximizing consistency and eliminating manual reading.

- Quickly transfer test results for processing, interpretation and report generation, improving laboratory efficiency and productivity
- User-friendly automation for busy laboratorians in a compact, lightweight design



Thermo Scientific Sensititre Vizion Digital MIC Viewing System.

Combining automation with visual results, the Vizion System consolidates all offline testing on a single instrument, with the benefits of Expert System software and LIS connectivity.

- Customizable lighting options facilitate reading of all organisms
- Easy-to-read digital images eliminate manual reading errors
- Stored images expedite teaching, sharing and decision-making



Boost productivity with semiautomated solutions

“We reduced our set-up time, decreased time spent reading plates manually, and advanced manual plate reading with the touch screen application of the Vizion System. The time savings these provided gave us more time for other value-added tasks.”

“With the Vizion System, there is no need to manually record MIC results. The system automatically saves digital images for all isolates so they can be reviewed at any time. The Vizion is an excellent teaching tool, and easily documents proof of competency for technologists.”

improve efficiency

Intelligent software system

to easily manage your test program

The Sensititre Windows® (SWIN) Software System combines manual, semi-automated and fully automated read options on a single software platform, to easily consolidate your entire test program and enhance data entry.

- Customizable Expert System provides three-tiered expert messages: Information, Modification (based on FDA, CLSI and EUCAST recommendations) and Warning Levels
- Quality control module to easily manage MIC results and broth information, for inspection purposes
- Automated alerts and report functionality enhance workflow and expedite release of results
- View ID details and susceptibility results at the same time

The image shows two overlapping windows from the SWIN software. The 'Expert Rule Manager' window on the left displays a list of rules with columns for 'Organism' and 'Short Expert Description'. A table at the bottom shows MIC ranges for various antibiotics: Chloramphenicol (4, In Range), Cefuroxime (sodium) (<=0.5, In Range), Gentifloxacin (<=0.5, In Range), Erythromycin (<=0.25, In Range), and Gemifloxacin (<=0.03, In Range). The 'Expert Cause' window on the right shows a detailed view of rule 146, 'Unusual Vancomycin resistance encountered'. It includes a 'Long Description' and a 'Specific Drug Results' table with columns for 'Drug Description', 'MIC', 'Interpretation', and 'Exclude'. The table shows 'Vancomycin' with a 'Resistant' interpretation. Below this is a 'Well Difference' table with columns for 'Drug Description', 'Wells Higher', and 'Drug Description'. The interface is clean and organized, with clear labels and buttons.



Touch screen navigation puts results at your fingertips!



Drop down fields eliminate difficult codes and numbers, eliminating manual entry errors.

user-friendly reporting

Fast, customizable reporting options

The SWIN Epidemiology Module allows users to generate complete, real-time reports and bar graphs in just minutes. With multiple search options, laboratories can create comprehensive reports specific to their patient populations.

- Define duplicate criteria, for accurate susceptibility trends
- “Save” and “Modify” existing report capabilities ensure quick access to the reports utilized most often
- Includes five customized report options: Percent Susceptible (JCAHO requirement), Cumulative MIC, Workload Report, Occurrence Report and Interpretation Report

Generating Reports is Fast and Easy...

1. Name your report
2. Select your organisms
3. Define duplicate criteria and date range

It's as simple as that!



The SWIN Epidemiology Module is the ultimate tool for comprehensive reporting, with five customizable report options.



Generate monthly and annual reports in minutes

“The SWIN Epidemiology platform allows us to quickly generate monthly and annual susceptibility reports. Prior to using the Sensitre SWIN Software, it took many hours to compile all of the necessary reports.”

“After using SWIN for several months, we can honestly say we love it! It is very user-friendly. We really like the expert comments and the quality control package.”

References available upon request

Sensitre Instrument Specifications:

	ARIS 2X:	OptiRead:	Vizion:	AIM:	Nephelometer:
Instrument Part No.:	V3090	V3030	V2020	V3020	V3011
Height:	28 in.; 70cm	7.3 in.; 18.5cm	12.4 in.; 31.5cm	11.3 in.; 28.7cm	3.84 in.; 9.7cm
Width:	25 in.; 63cm	13.2 in.; 33.5 cm	10.4 in.; 26.3cm	13.3 in.; 33.8cm	7.5 in.; 19cm
Depth:	19 in.; 48cm	10.2 in.; 26cm	13.9 in.; 35.4cm	12.3 in.; 31.2cm	5.3 in.; 13.5cm
Weight:	128.2 lbs; 58 kg	14.1 lbs; 6.4kg	21 lbs; 9.5kg	17.6 lbs; 8kg	1.8 lbs; 0.8kg
Power Requirements:	220/240 VAC 60 Hz; 110/120 VAC 50 Hz	100–240 VAC 50–60 Hz	220/240 VAC 60 Hz	94–237V; 47–63 Hz	8–18 VAC/DC, 130 mA
Power Consumption:	230 watts	50 watts	8 watts	150 watts	1 watt
Regulatory Compliance:	ANSI/UL 6101-1 and CSA C22.2#61010-1, ETL safety tested, CE marked and EMC tested	FDA-cleared	ETL safety tested, CE marked and EMC tested, FDA-cleared	FDA-cleared	
System Part No. and Description	V3000; includes ARIS 2X, SWIN Computer, Vizion System and AIM System		V2020-SYS; includes Vizion instrument and SWIN Computer V2020-SYS-LIS; includes Vizion instrument, SWIN Computer and LIS interface V2020-SYE; includes Vizion instrument, SWIN Computer and SWIN Epidemiology V2020-SYE-LIS; includes Vizion instrument, SWIN Computer, SWIN Epidemiology and LIS interface		

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