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U.S. AST plate guide

Thermo Scientific Sensititre System

for antimicrobial susceptibility testing

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In 1928, the discovery of penicillin revolutionized medicine. Ever since, the use of antibiotics to treat and prevent bacterial infections has saved innumerable lives, enabled advancements in medical procedures like surgery and chemotherapy, and helped slow the spread of deadly infections.

However, after nearly 100 years of widespread antibiotic use, the threat posed by evolving bacteria possessing resistance to common antibiotics has emerged as one of the most significant global health issues of the 21st century. Antimicrobial resistance is present in every country, increases healthcare costs, and is accelerating due to the misuse and overuse of antibiotics in both people and animals.

The ability to treat infections quickly and accurately with the information obtained from antimicrobial susceptibility testing (AST) is of the utmost importance for combating resistance. Access to an AST device with the most up-to-date antimicrobials is vital to expanding patient treatment options and improving patient outcomes.

"Antimicrobial resistance (AMR) is a threat to global health and development and is estimated to contribute to more than five million deaths globally each year. We need urgent global action, using a One Health approach, to keep our precious medicines working."[1]

Dr. Tedros Adhanom Ghebreyesus
Director-General, WHO

[1] World Health Organization. The WHO AWaRe (Access, Watch, Reserve) antibiotic book. Retrieved from: https://www.who.int/publications/i/item/9789240062382


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Contents

Thermo Scientific Sensititre System

Confidently identify bacterial pathogens and detect emerging antibiotic resistance with the gold standard equivalent[1] accuracy of broth microdilution combined with the time-saving benefits of automation to optimize patient care, support antimicrobial stewardship, and improve lab efficiency.

With a proven history of AST accuracy, the Sensititre System delivers accurate antimicrobial susceptibility testing (AST) for the most commonly prescribed antibiotics as well as novel, last-resort therapies.

Select Plate

Sensititre Standard AST Plates–choose from our wide selection of standard plates to suit your application, including Gram positive, Gram negative, fastidious, mycobacteria and yeast formats.

Sensititre Custom AST Plates–design your own plate from our selection of over 300 antimicrobials. We offer one of the widest, most up-to-date selections of antimicrobials, available in wide dilution ranges.

Inoculum

Thermo Scientific™ Sensititre™ Nephelometer–a simple solution for inoculum density measurements and standardize inoculation preparation.
▶ See page 9

Inoculate

Thermo Scientific™ Sensititre™ 8-Channel Programmable Pipette–quick and accurate manual inoculation of microtitre plates, with enhanced ergonomics.

Thermo Scientific™ Sensititre AIM™ Automated Inoculation Delivery System–automatically doses Sensititre plates eliminating skipped wells and costly repeat tests.
▶ See page 8

1 Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and Etest methods. C. Hughes, C. Ashhurst-Smith, J.K. Ferguson. Pathology Volume 50, Issue 4, June 2018.

Choose from a full range of standard AST plates to use with the Sensititre AST System or design your own customized plate tailored to your formulary with access to over 300 antimicrobials and broad dilution ranges. Consolidate your susceptibility testing on a single platform.

The Sensititre System is a scalable and flexible solution, accommodating microbiology laboratories of all sizes:

Incubate

Sensititre ARIS HiQ System–individually incubates 100 MIC, breakpoint or identification plates, ensuring optimal growth conditions and eliminating offline or supplementary testing.
▶ See page 6

Read

Thermo Scientific™ Sensititre™ OptiRead™ Automated Fluorometric Plate Reading System–utilizes fluorescence detection technology to automate Sensititre plate reading, delivering fast, accurate results, and directly linking to the Sensititre SWIN Software System to automate interpretation and result reporting.
▶ See page 9

Thermo Scientific™ Sensititre™ Vizion™ Digital MIC Viewing System–captures and stores easy-to-read digital plate images for optimized manual reading and traceability and connects to the Sensititre SWIN Software System for automated interpretation and reporting of results.
▶ See page 8

Thermo Scientific™ Sensititre™ Manual Viewbox–perform simple visual reads of your 96-well microtitre plates with our mirrored viewbox.

Interpret

Thermo Scientific™ Sensititre™ SWIN™ Software System, Complete–consolidates Sensititre results from manual and automated reading options on a single software platform.

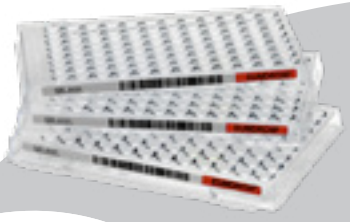
Sensititre SWIN Epidemiology Module–provides comprehensive reporting of AST results to help detect, monitor, and investigate local antibiotic resistance patterns to facilitate decision-making and support antimicrobial stewardship programs.

Thermo Scientific Sensititre ARIS HiQ System

The Sensititre System utilizes gold standard-equivalent MIC accuracy, providing superior quality and reproducibility for accurate results the first time. Reduce the number of re-tests and confirmatory tests required, saving time, and decreasing costs, and report results with more confidence.

Choose from a full range of standard AST plates to use with the Thermo Scientific Sensititre ARIS HiQ System or design your own customized plate tailored to your formulary with access to over 300 antimicrobials and broad dilution ranges.

- Immediate easy access with intuitive integrated LCD touchscreen user-interface. Access critical test information 24/7 directly at instrument, on software or through an LIS interface
- Automated reads deliver worry-free results. Streamlined workflow with flexible load/unload capabilities via removable plate racks, enhanced loading and batch load/unload functions
- A large capacity with a small footprint, the ARIS HiQ offers automated processing of up to 100 plates all handled by an internal robotic arm working in tandem with advanced plate sorting algorithms to deliver efficient plate removal



1 Scan panel barcode into SWIN Software

2 Enter specimen/ isolate information

3 Load plates or racked plates into the ARIS HiQ system

4 Incubating plate status can be viewed on the LCD touchscreen

5 System robotically moves each plate to the internal OptiRead module at appropriate incubation time

6 Read information automatically transferred to software for review, acceptance and report finalization

Where automation meets accuracy

Vizion Digital MIC Viewing System

Manual Sensititre Plate reading with the Vizion System generates digital plate images for efficient and accurate reading/recording, and via the Sensititre SWIN Software enables interpretation of antimicrobial susceptibility plate results.

Plates can be quickly inserted into the loading tray, with user customizable lighting options to facilitate optimal calibration for each organism type. Directly select microbial inhibitory concentrations (MIC) on-screen, within a predefined supportive template.

The Vizion System reduces risk associated with manual recording errors, and delivers immediate data review options to apply interpretations, access the Expert System, or transfer results through the laboratory information management system (LIS/LIMS).

- Semi-automated touchscreen driven reading and interpretation with an auditable/recorded reference image
- Works in parallel with SWIN Software offering LIS connectivity

Sensititre AIM Automated Inoculation Delivery System

Quickly and accurately dose 96-well microtitre Sensititre Plates, eliminating both skipped wells and costly repeat tests, with the Sensititre AIM. Simply select dosing volume and pattern, with the easy-to-use, icon-driven touch screen for simple, intuitive plate inoculation.

By minimizing sample contact the AIM System mitigates risks associated with cross-contamination, aerosol exposure, and bio-hazardous spills.

The compact, user-friendly design, also reduces risks associated with skipped wells and pipetting errors.

- Accurate dosing of Sensititre plates
- Intuitive icon-driven touch screen
- Reduces the risk of pipetting errors and skipped wells

OptiRead Automated Fluorometric Plate Reading System

Maximize consistency and eliminate manual reading errors with fast, accurate and automated Sensititre plate reads using the OptiRead Automated Fluorometric Plate Reading System.

The OptiRead System uses fluorescent detection technology to automate Sensititre plate reading, delivering fast, accurate results, and directly linking to the Sensititre SWIN Software System to automate interpretation and result reporting. Quickly transfer test results for processing, interpretation and report generation, thus improving laboratory efficiency and productivity. Combining user-friendly automation in a compact, lightweight design, the OptiRead System facilitates efficient workflows for busy laboratories that value consistent reporting standards.

- Fast fluorescent Sensititre plate reads
- Eliminate manual reading steps, improve laboratory efficiency and productivity
- Automated read, interpretation and results reporting
- Maintain consistent reporting standards

Nephelometer

Optimize performance and achieve accurate results by standardizing bacterial suspension density with the Nephelometer.

Designed to rapidly prepare a consistent inoculum density, the easy-to-read LED indicator light offers a quick methodology to produce bacterial suspensions equivalent to the required 0.5 McFarland Standard.

The Sensititre Nephelometer reduces the risk of manual errors associated with targeting numeric values, by guiding the user to increase/decrease the concentration of emulsified test colonies, until a green “in range” result is achieved – indicating that the suspension is ready for addition to the chosen test broth.

The value of accurate MICs supports future stewardship

Health care practitioners have known for some time that delivering continuous improvements to antibiotic stewardship efforts relies on striving to select the most appropriate antibiotic, at the right dose, followed by pathogen-specific antibiotic therapy with an appropriate duration[1].

Broth microdilution is the reference method for antimicrobial susceptibility testing[2], and this will remain the case in the foreseeable future even with improving molecular techniques (that act as useful pre-screening predictive tools), as there is still a significant level of resistance to antimicrobials that is not explained by DNA genetics alone[3]. Sensititre Systems use broth microdilution to deliver a minimum inhibitory concentration (MIC) that details the level of antimicrobic required to achieve inhibition against the tested clinical isolate.

Less favorable outcomes frequently occur when patients are given low doses[4], where organisms for which MICs are at the marginal points of susceptibility are more likely to develop resistance. This is particularly significant when treating marginally susceptible species, where clinical success is more likely if the right dosing strategy is applied, as well as the right antibiotic - and confidence in the accuracy of MIC data gives further assurance in treatment strategy.

Some AST systems calculate the MIC value by extrapolating growth curves and applying dedicated algorithms[5]. The Sensititre System generates true MIC values based on actual growth of the organism. An accurate MIC not only reveals the difference between whether a bacterial isolate is susceptible but also how susceptible the organism is against a particular drug, and the exact point at which the isolate becomes resistant. When comparing your MIC results against the latest clinical breakpoints from FDA and CLSI, you can trust the value of a true MIC to deliver the accuracy required for optimal patient outcomes, and to track emerging resistance.

> "To be able to get an accurate measurement of MIC for very specific drugs like vancomycin, for me, is wonderfully valuable."

Dr. James McKinnell, Assistant Professor of Medicine, David Geffen School of Medicine, University of California, Los Angeles

1 Antimicrobial Stewardship. Shira Doron, MD and Lisa E. Davidson, MD. Mayo Clin Proc. 2011 Nov; 86(11): 1113–1123.
2 Reading and understanding an antibiogram. Tascini, C. *et al.* Italian Journal of Medicine 2016; volume 10:289-300
3 Innovative and rapid antimicrobial susceptibility testing systems. van Belkum, A., Burnham, CA.D., Rossen, J.W.A. *et al.* Nat Rev Microbiol 18, 299–311 (2020).
4 Pharmacodynamics of intravenous ciprofloxacin in seriously ill patients. Forrest A, *et al.* Antimicrob Agents Chemother. 1993;5:1073–81.
5 MIC-based dose adjustment: facts and fables. Mouton JW, Muller AE, Canton R, Giske CG, Kahlmeter G, Turnidge J. J Antimicrob Chemother. 2018 Mar 1;73(3):564-568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Custom capabilities

Transform your susceptibility testing to meet the demands of your stewardship program and the needs of your unique formulary requirements or patient population. With access to over 300 antimicrobials at customized dilutions, tailor-made AST couldn't be simpler.

The Sensititre System's custom plate capabilities enable you to design a plate format tailored to your formulary for clinical, veterinary and surveillance applications.

Let us help you identify the custom AST solution that fits the needs of your lab.

Greater flexibility	Over 300 antimicrobials available for clinical, veterinary and surveillance applications; available as frozen or dried formats
Performance	Superior reproducibility for accurate results, first time; consolidate testing onto one format to reduce unnecessary testing protocols, off line testing and associated costs
Custom design	Easily adapt formulary requirements and prescription protocols to monitor local resistance
Scalable	Choose from a variety of flexible instrumentation options to streamline your workflow and meet your specific workload and budget requirements

Join the global initiative to combat antimicrobial resistance through the effective use of antimicrobials in children, young people, adults and animals by assisting your clinical colleagues in delivering accurate and actionable MIC results tailored to your patient or animal population.

Customized formats for every AST workflow

Thermo Scientific™ Sensititre™ Custom Plates

Our custom plates let you tailor your AST to your antimicrobial formulary and test population, supporting antibiotic stewardship protocols. In just four steps, our team assists with customization, ensuring timely, pertinent AST results based on real-time resistance trends and local epidemiology.

The goal? Better patient outcomes and effective AMR management.

Design

Customize antimicrobials and dilutions based on your formulary requirements and local test population.

Approval

Plates undergo a rigorous review against quality and regulatory benchmarks.

Order

Post-approval, Sensititre custom plates are ready for production.

Delivery

Every custom plate includes the Sensititre SWIN Software script, tailored to your design, ensuring results are reported with the correct interpretive criteria.

Not only is it critical to identify new antimicrobics but also to incorporate them into a reliable testing device to accurately negotiate optimum patient treatment.

Treating multi-drug resistant infections and monitoring emergent multi-drug resistance is more important now than ever. Increasingly, there are fewer antimicrobial drugs available to effectively treat common as well as life-threatening infections*.

With this in mind, we are dedicated in our collaboration with pharmaceutical companies developing new antimicrobials and expediting their incorporation into our gold standard-equivalent[1] Sensititre plate portfolio. If you require early access to a broth microdilution (BMD) MIC test, Sensititre is the only platform to offer a solution.

MDRO FORMATS	MDRGN4F	MDRGNX4F**	CUSTOM CAPABILITIES
Jump to page ▶	19	20	12

The latest antimicrobials include:

- Imipenem/relebactam
- Meropenem/vaborbactam
- Sulbactam/durlobactam
- Rezafungin

Reduce offline testing, improve workflow efficiencies and provide accurate MIC results with Sensititre AST plates in off-the shelf, standard formats or customized to your specific needs.

"Current research has demonstrated that the spread of multi-drug resistant organisms are largely driven by the physical movement of patients. As a result, hospitals that have never seen a pan-resistant *Acinetobacter baumanii* or pan beta-lactam-resistant *Pseudomonas aeruginosa* are only one admission away from seeing their first case[2]."

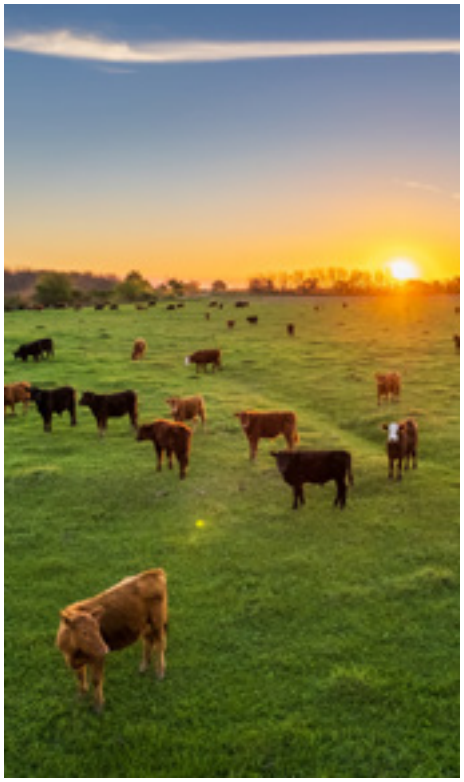
* World Health Organization, 2014. Antimicrobial resistance global report on surveillance. ** For Research Use Only. Not for use in diagnostic procedures.
1. Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and ETest methods. C. Hughes, C. Ashhurst-Smith, J.K. Ferguson. Pathology Volume 50, Issue 4, June 2018.
2. Dr. James McKinnell, Associate Professor of Medicine, David Geffen School of Medicine, University of California, Los Angeles.
Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.

Driving the One Health Quadripartite's approach to combat antimicrobial resistance

Our health is all connected

Whether the patient has fur, feathers, or skin, accurate testing is paramount in diagnosing and treating infections.

Our **clinical** portfolio helps optimize treatment for the critically ill, promoting better patient outcomes.



Our **veterinary** solutions can be used to detect resistance in a wide range of animals, from pets and livestock to wildlife, using species-specific formats.

Our **environmental** capabilities help to determine pathogen antimicrobial susceptibility patterns in food, animals, water and the environment, making us the system of choice for many global surveillance organizations.

As the threat of antimicrobial resistance escalates, faster, more accurate testing of an ever-evolving range of infections is vital to improving patient outcomes.

Standard plate formats

			GRAM NEGATIVE First line	GRAM NEGATIVE Second line			GRAM POSITIVE
	INSTRUMENTS	USE AND METHODOLOGY	GN7F	MDRGN4F	MDRGNX4F	GNX3F	GNX2F	GPALL3F
FLUORESCENT PLATES	**AUTOREAD** (ARIS HiQ, OptiRead, Manual Viewbox, Vizion)	IVD-FDA (CLSI)	●	●				●
		RUO*			●	●	●	
NON-FLUORESCENT PLATES	**SEMI-AUTOMATED AND MANUAL READ** (Manual Viewbox, Vizion)	IVD-FDA (CLSI)	●					
		RUO*						
		Jump to page ▶	18	19	20	21	22	24

	INSTRUMENTS	USE AND METHODOLOGY	FASTIDIOUS STP8F	FASTIDIOUS HPB2	ANAEROBES AN02B	CAMPYLO-BACTER CAMPY2	YEAST Y04IVD	YEAST Y011	MYCOBACTERIA MYCOTB	MYCOBACTERIA NOCARDIA	MYCOBACTERIA RAPMYCO2	MYCOBACTERIA SLOMYCO2
FLUORESCENT PLATES	**AUTOREAD** (ARIS HiQ, OptiRead, Manual Viewbox, Vizion)	IVD-FDA (CLSI)	●									
		RUO*										
NON-FLUORESCENT PLATES	**SEMI-AUTOMATED AND MANUAL READ** (Manual Viewbox, Vizion)	IVD-FDA (CLSI)		●			●					
		RUO*			●	●		●	●	●	●	●
			25	26	27	28	30	31	32	33	34	35

* For Research Use Only. Not for use in diagnostic procedures.
Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.

Sensititre Gram Negative GN7F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative organisms	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

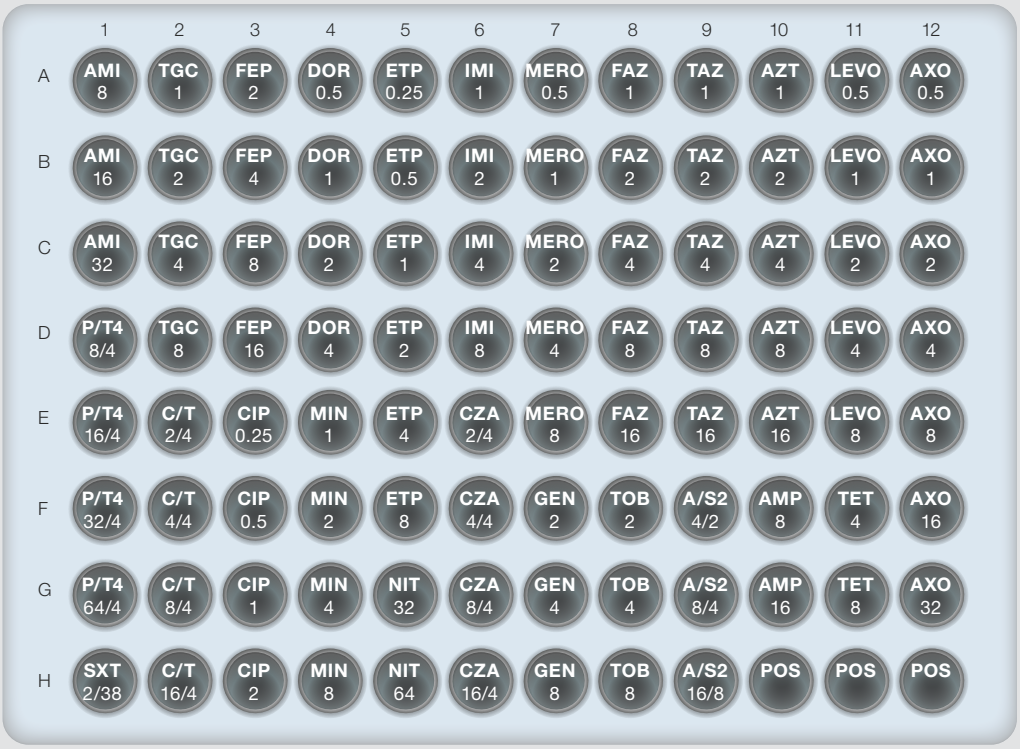
Culti-Loops product code	Organism description
R4607050	*Escherichia coli ATCC® 25922™*
R4601971	*Escherichia coli ATCC® 35218™*
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Addditional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL**, or 30 µL*** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead, read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
AMP	Ampicillin
A/S2	Ampicillin / Sulbactam 2:1 ratio
AZT	Aztreonam
FAZ	Cefazolin
FEP	Cefepime
TAZ	Ceftazidime
CZA	Ceftazidime / Avibactam
C/T	Ceftolozane / Tazobactam constant 4
AXO	Ceftriaxone
CIP	Ciprofloxacin
DOR	Doripenem
ETP	Ertapenem
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
MIN	Minocycline
NIT	Nitrofurantoin
P/T4	Piperacillin / Tazobactam constant 4
POS	Positive control
TET	Tetracycline
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

ATCC Licensed Derivative

Sensititre Gram Negative MDRGN4F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative organisms isolated from difficult to treat infections. Now including Sulbactam/Durlobactam.	Autoread or manual
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041), Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

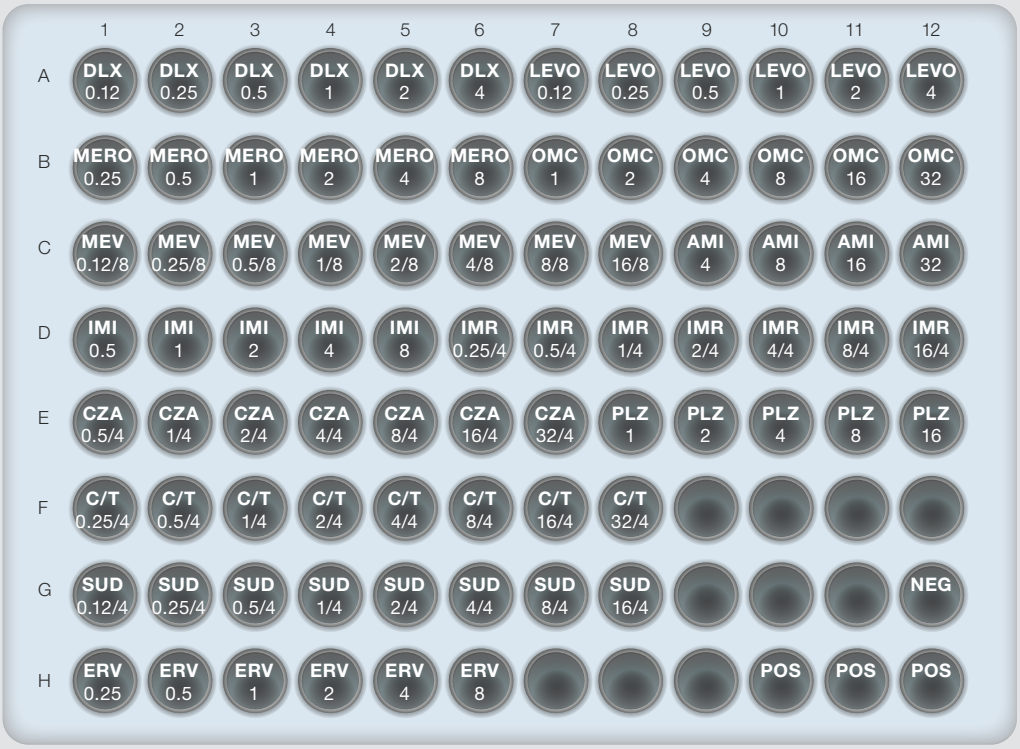
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4609384	*Klebsiella pneumoniae* ATCC® BAA-1705™
R4601316	*Klebsiella pneumoniae* ATCC® BAA-2814™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL**, or 30 µL*** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead, read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
CZA	Ceftazidime / Avibactam constant 4
C/T	Ceftolozane / Tazobactam constant 4
DLX	Delafloxacin
ERV	Eravacycline
IMI	Imipenem
IMR	Imipenem / Relebactam constant 4
LEVO	Levofloxacin
MERO	Meropenem
MEV	Meropenem / Vaborbactam constant 8
NEG	Negative control
OMC	Omadacycline
PLZ	Plazomicin
POS	Positive control
SUD	Sulbactam / Durlobactam constant 4

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

ATCC Licensed Derivative

Sensititre Gram Negative MDRGNX4F Plate

Intended use	Read method
Susceptibility testing of non-fastidious Gram Negative isolates. Now including Sulbactam/Durlobactam	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

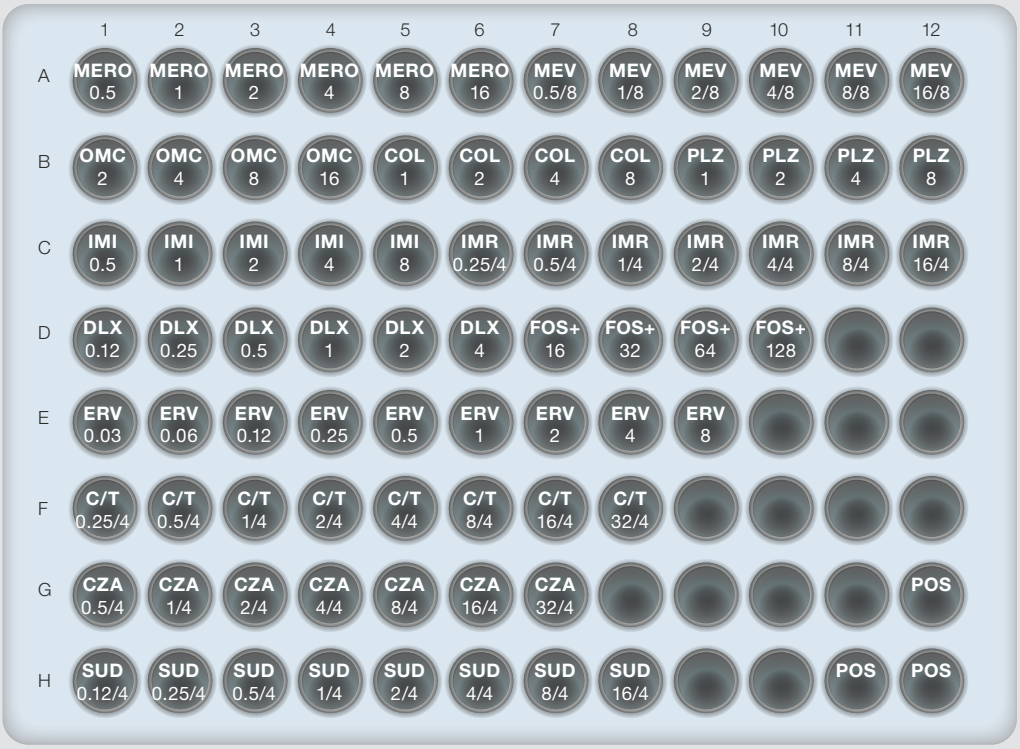
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4609384	*Klebsiella pneumoniae* ATCC® BAA-1705™
R4601316	*Klebsiella pneumoniae* ATCC® BAA-2814™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL**, or 30 µL*** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead, read manually with Vizion or Manual Viewbox



Antimicrobics

CZA	Ceftazidime/Avibactam constant 4
C/T	Ceftolozane/Tazobactam constant 4
COL	Colistin
DLX	Delafloxacin
ERV	Eravacycline
FOS+	Fosfomycin +glucose-6-phosphate
IMI	Imipenem
IMR	Imipenem/Relebactam constant 4
MERO	Meropenem
MEV	Meropenem/Vaborbactam constant 8
OMC	Omadacycline
PLZ	Plazomicin sulfate
POS	Positive control
SUD	Sulbactam/Durlobactam constant 4

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

ATCC Licensed Derivative

Sensititre Gram Negative GNX3F Plate
for second-line testing including Colistin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative organisms isolated from difficult to treat infections	**Autoread or manual** Sensititre ARIS HiQ (V4000)# Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

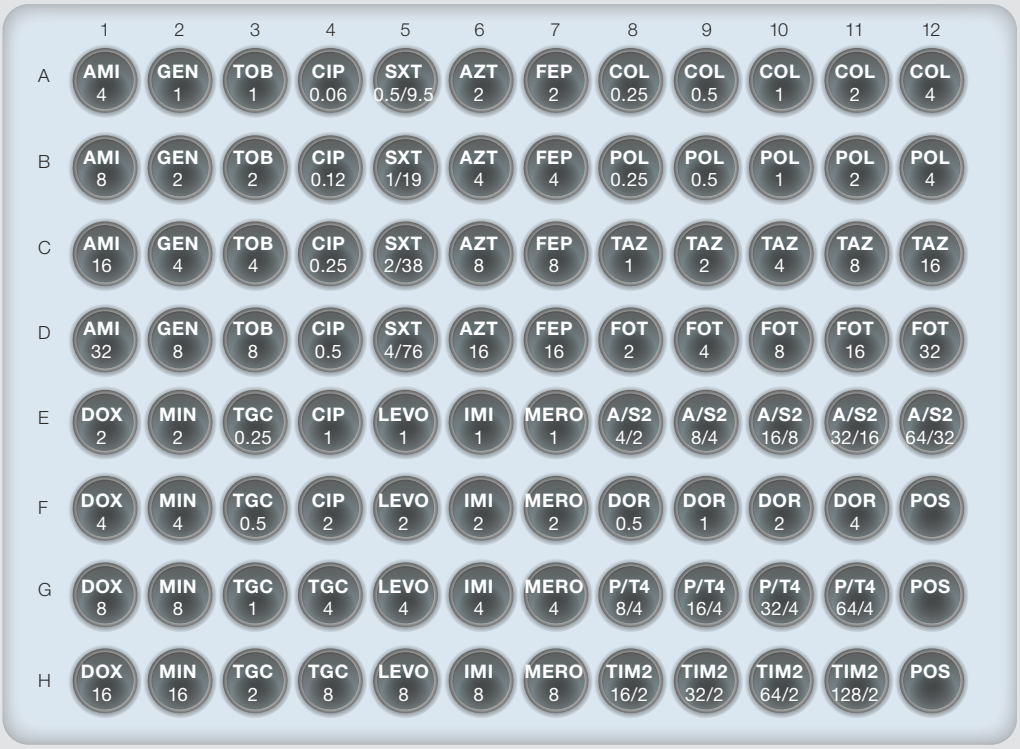
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL**, or 30 µL*** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead, read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
A/S2	Ampicillin/Sulbactam 2:1 ratio
AZT	Aztreonam
FEP	Cefepime
FOT	Cefotaxime
TAZ	Ceftazidime
CIP	Ciprofloxacin
COL	Colistin
DOR	Doripenem
DOX	Doxycycline
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
MIN	Minocycline
P/T4	Piperacillin / Tazobactam constant 4
POL	Polymixin B
POS	Positive control
TIM2	Ticarcillin / Clavulanic acid constant 2
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

ATCC Licensed Derivative

Sensititre Gram Negative GNX2F Plate
for second-line testing including Colistin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative isolates	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

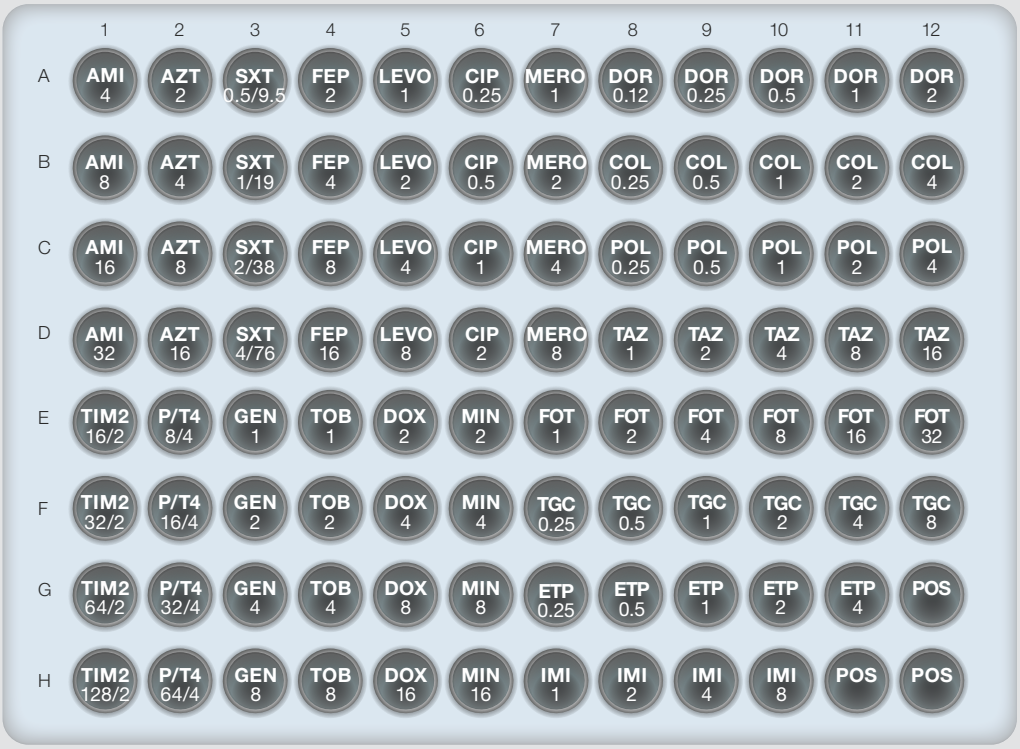
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 1 µL*, 10 µL**, or 30 µL*** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
AZT	Aztreonam
FEP	Cefepime
FOT	Cefotaxime
TAZ	Ceftazidime
CIP	Ciprofloxacin
COL	Colistin
DOR	Doripenem
DOX	Doxycycline
ETP	Ertapenem
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
MIN	Minocycline
P/T4	Piperacillin / Tazobactam constant 4
POL	Polymixin B
POS	Positive control
TIM2	Ticarcillin / Clavulanic acid constant 2
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

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Earlier access to the latest antimicrobials could provide alternative and effective treatment options for critically ill patients.

Treating multidrug-resistant infections and monitoring emergent multidrug resistance is more important now than ever. Expand your Gram negative organism susceptibility testing options by accessing the latest antibiotics including **sulbactam/durlobactam**, **eravacycline**, **imipenem/relebactam** and **meropenem/vaborbactam**.

Confidently perform FDA-cleared and CLSI compliant susceptibility testing of multi-drug resistant Gram negative isolates on a single plate providing clinicians with gold standard equivalent[1], accurate results[2] to guide optimal treatment decisions.

Our continued and close collaboration with pharmaceutical companies developing new antimicrobials enables early access on multiple AST devices, including standard and customized formats, providing flexibility to meet your manual and/or automated workflow requirements.

1. Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and Etest methods. C. Hughes, C. Ashhurst-Smith, J.K. Ferguson. *Pathology* Volume 50, Issue 4, June 2018.
2. International Organization for Standardization (ISO) (2019) *Susceptibility testing of infectious agents and evaluation of performance of antimicrobial susceptibility test devices — Part 1: Broth micro-dilution reference method for testing the in vitro activity of antimicrobial agents against rapidly growing aerobic bacteria involved in infectious diseases.* ISO 20776-1:2019.

Sensititre Gram Positive GPALL3F Plate
with Ceftaroline and Telavancin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive isolates	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4606512	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-976™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4606513	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-977™
CLSI recommended supplemental quality control:	
R4606513	*Staphylococcus aureus subsp. aureus* ATCC® BAA-977™
R4601996	*Enterococcus faecalis* ATCC® 51299™
R4609022	*Staphylococcus aureus* ATCC® 43300™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL or 30 µL* of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	CPT 0.12	CPT 0.25	CPT 0.5	CPT 1	CPT 2	CPT 4	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8
B	CHL 2	CHL 4	CHL 8	CHL 16	AXO 8	AXO 16	AXO 32	AXO 64	DAP 0.5	DAP 1	DAP 2	DAP 4
C	CLI 0.5	CLI 1	CLI 2	GEN 4	GEN 8	LEVO 0.25	LEVO 0.5	LEVO 1	LEVO 2	LEVO 4	DT1	DT2
D	LZD 1	LZD 2	LZD 4	LZD 8	VAN 0.25	VAN 0.5	VAN 1	VAN 2	VAN 4	VAN 8	VAN 16	FOXS 6
E	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	TLA 0.015	TLA 0.03	TLA 0.06	TLA 0.12	TLA 0.25
F	MXF 0.25	MXF 0.5	MXF 1	MXF 2	MXF 4	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	SXT 2/38	SXT 4/76	POS
G	RIF 1	RIF 2	TGC 0.03	TGC 0.06	TGC 0.12	TGC 0.25	TGC 0.5	NIT 32	NIT 64	GEN 500	STR 1000	POS
H	TET 2	TET 4	TET 8	ERY 0.5	ERY 1	ERY 2	ERY 4	CIP 1	CIP 2	CIP 4	NEG	POS

Antimicrobics

CPT	Ceftaroline
CHL	Chloramphenicol
CLI	Clindamycin
LZD	Linezolid
PEN	Penicillin
MXF	Moxifloxacin
RIF	Rifampin
TET	Tetracycline
TGC	Tigecycline
GEN	Gentamicin
ERY	Erythromycin
AXO	Cetriaxone
VAN	Vancomycin
LEVO	Levofloxacin
OXA+	Oxacillin + 2% NaCl
AMP	Ampicillin
TLA	Telavancin with Tween mimic
NIT	Nitrofurantoin
CIP	Ciprofloxacin
DAP	Daptomycin
SXT	Trimethoprim / Sulfamethoxazole
DT1	D Test 1
DT2	D Test 2
STR	Streptomycin
FOXS	Cefoxitin Screen
NEG	Negative control
POS	Positive control

*For aid in detection of resistance mechanisms for Gram positive organisms.

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Sensititre Streptococcus STP8F AST Plate
with Lefamulin and Delafloxacin

Intended use	Read method
Antimicrobial susceptibility plate for testing *Streptococcus* species isolates	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth with Lysed Horse Blood – manual read (CP112-10) or Sensititre Mueller Hinton Broth with Lysed Horse Blood – autoread (CP11410)	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4609015	*Streptococcus pneumoniae* ATCC®49619

Put 3-5 colonies into MHB to measure a 0.5 McFarland using the Nephelometer, mix 100 µL of suspension into MHB with LHB

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 20-24 hours

Read automatically with ARIS HiQ or OptiRead, read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AUG2 0.5/0.25	AUG2 1/0.5	AUG2 2/1	AUG2 4/2	AUG2 8/4	ERY 0.12	ERY 0.25	ERY 0.5	ERY 1	ERY 2	DLX 0.5	CPT 2
B	FOT 0.25	FOT 0.5	FOT 1	FOT 2	FOT 4	AXO 0.25	AXO 0.5	AXO 1	AXO 2	DTS	DLX 0.25	CPT 1
C	DAP 0.25	DAP 0.5	DAP 1	DAP 2	DAP 4	FEP 0.25	FEP 0.5	FEP 1	FEP 2	FEP 4	DLX 0.12	CPT 0.5
D	FUR 0.25	FUR 0.5	FUR 1	FUR 2	FUR 4	CLI 0.12	CLI 0.25	CLI 0.5	CLI 1	DLX 0.03	DLX 0.06	CPT 0.25
E	LMU 0.25	LMU 0.5	LMU 1	LMU 2	LEVO 1	LEVO 2	LEVO 4	LEVO 8	LZD 0.5	LZD 1	LZD 2	LZD 4
F	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MXF 1	MXF 2	MXF 4	MXF 8	TET 1	TET 2	TET 4	TET 8
G	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76
H	VAN 0.25	VAN 0.5	VAN 1	VAN 2	OMC 0.06	OMC 0.12	OMC 0.25	OMC 0.5	OMC 1	POS	POS	POS

Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 Ratio
FEP	Cefepime
FOT	Cefotaxime
CPT	Ceftaroline
AXO	Ceftriaxone
FUR	Cefuroxime
CLI	Clindamycin
DAP	Daptomycin
DLX	Delafloxacin
DTS	D-Test Strep
ERY	Erythromycin
LMU	Lefamulin
LEVO	Levofloxacin
LZD	Linezolid
MERO	Meropenem
MXF	Moxifloxacin
OMC	Omadacycline
PEN	Penicillin
POS	Positive control
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole
VAN	Vancomycin

ATCC Licensed Derivative

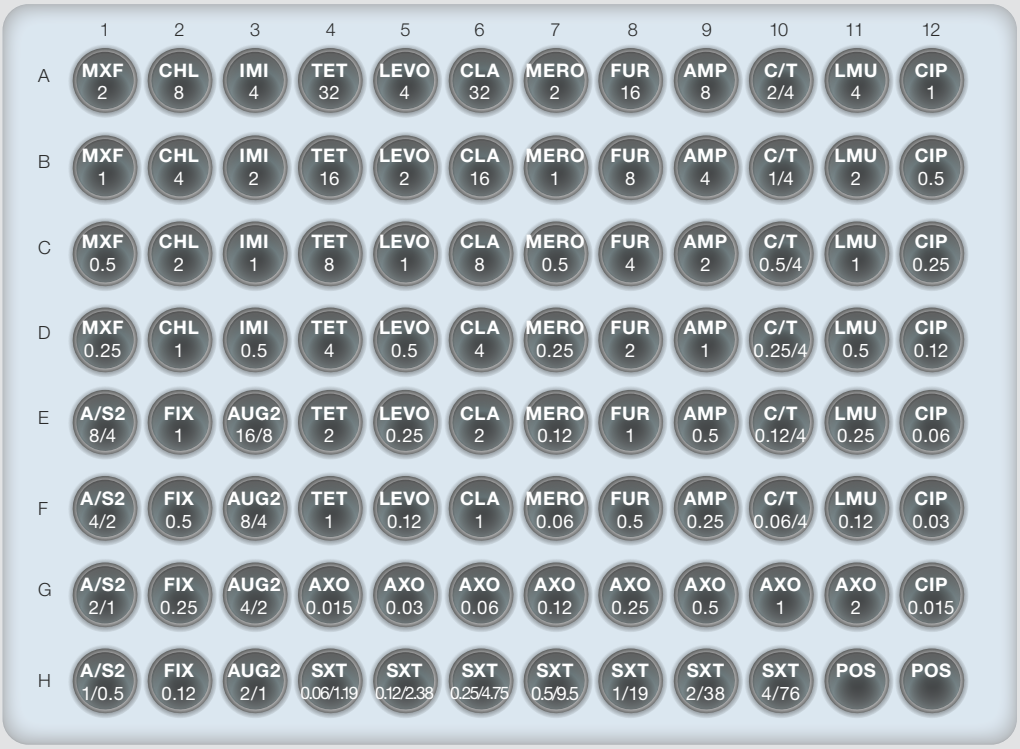
Sensititre Haemophilus HPB2 Plate
with Lefamulin and Ceftolozane/tazobactam

Intended use	Read method
Antimicrobial susceptibility plate for testing *Haemophilus influenzae* isolates	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre HTM (T3470)*	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4603830	*Haemophilus influenzae* ATCC® 49247™
R4603806	*Haemophilus influenzae* ATCC® 49766™
R4609015	*Streptococcus pneumoniae* ATCC®49619

1. Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 50 µL* of suspension into HTM*
2. Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette
3. Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator for 20-24 hours
4. Read manually with Vizion or Manual Viewbox



Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
A/S2	Ampicillin / Sulbactam 2:1 ratio
FIX	Cefixime
C/T	Ceftolozane / Tazobactam constant 4
AXO	Ceftriaxone
FUR	Cefuroxime
CHL	Chloramphenicol
CIP	Ciprofloxacin
CLA	Clarithromycin
IMI	Imipenem
LMU	Lefamulin
LEVO	Levofloxacin
MERO	Meropenem
MXF	Moxifloxacin
POS	Positive control
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

*For *Haemophilus*.

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Sensititre Anaerobe AN02B Plate
for *B. fragilis* group

Intended use	Read method
Antimicrobial susceptibility plate for testing anaerobic organisms *Bacteroides fragilis* group	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre™ Supplemented Brucella Broth for Anaerobes (T3451)	0.5 McFarland Standard (E1041) Sensititre™ Cation Adjusted Mueller-Hinton Broth with TES (CAMHBT) (T3462-05)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4601250	*Bacteroides fragilis* ATCC® 25285™
R4601260	*Bacteroides thetaiotaomicron* ATCC® 29741™
Additional QC strains used for product release	
R4601971	*Escherichia coli* ATCC® 35218™

Put 3-5 colonies into 5 mL MHB to measure a 0.5 McFarland using the Nephelometer. Mix 100 µL of suspension into Supplemented Brucella broth

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal plates and incubate at 34-36°C in an anaerobic atmosphere for 46-48 hours

Read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	A/S2 0.5/0.25	A/S2 1/0.5	A/S2 2/1	A/S2 4/2	A/S2 8/4	A/S2 16/8	AUG2 0.5/0.25	AUG2 1/0.5	AUG2 2/1	AUG2 4/2	AUG2 8/4	AUG2 16/8
B	TANS 4	TANS 8	TANS 16	TANS 32	TANS 64	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4
C	IMI 0.12	IMI 0.25	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8
D	CLI 0.25	CLI 0.5	CLI 1	CLI 2	CLI 4	CLI 8	FOX 1	FOX 2	FOX 4	FOX 8	FOX 16	FOX 32
E	MRD 0.5	MRD 1	MRD 2	MRD 4	MRD 8	MRD 16	CHL 2	CHL 4	CHL 8	CHL 16	CHL 32	CHL 64
F	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AMP 16	PIP 4	PIP 8	PIP 16	PIP 32	PIP 64	PIP 128
G	TET 0.25	TET 0.5	TET 1	TET 2	TET 4	TET 8	MEZ 4	MEZ 8	MEZ 16	MEZ 32	MEZ 64	MEZ 128
H	P/T4 0.25/4	P/T4 0.5/4	P/T4 1/4	P/T4 2/4	P/T4 4/4	P/T4 8/4	P/T4 16/4	P/T4 32/4	P/T4 64/4	P/T4 128/4	POS	POS

Antimicrobics

AUG2	Amoxicillin /Clavulanic acid 2:1 ratio
AMP	Ampicillin
A/S2	Ampicillin/Sulbactam 2:1 ratio
TANS	Cefotetan
FOX	Cefoxitin
CHL	Chloramphenicol
CLI	Clindamycin
IMI	Imipenem
MERO	Meropenem
MRD	Metronidazole
MEZ	Mezlocillin
PEN	Penicillin
PIP	Piperacillin
P/T4	Piperacillin /Tazobactam constant 4
POS	Positive control
TET	Tetracycline

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Sensititre Campylobacter CAMPY2 Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Campylobacter* isolates	Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth w/ Lysed Horse Blood (CP112-10)	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)

CLSI recommended routine QC strains

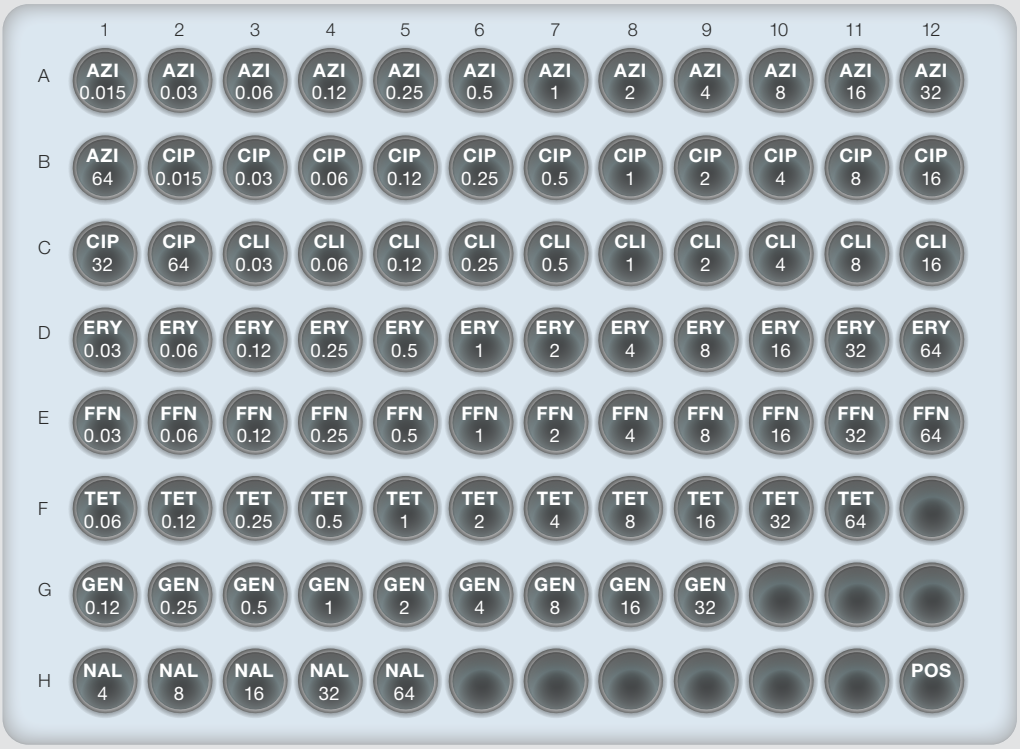
Culti-Loops product code	Organism description
R4609498	*Campylobacter jejuni subsp. jejuni* ATCC® 33560™
Additional QC strains used for product release	
R4607011	*Staphylococcus aureus subsp. aureus* ATCC® 29213™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607050	*Escherichia coli* ATCC® 25922™

Put 3-5 colonies into Sensititre MHB 5 ml to reach a 0.5 McFarland Standard. Mix 100 µL into Sensititre MHB with LHB

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate in a microaerophillic atmosphere* at 35-37ºC for 48 hours or at 42ºC for 24 hours**

Manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

AZI	Azithromycin
CIP	Ciprofloxacin
CLI	Clindamycin
ERY	Erythromycin
FFN	Florfenicol
GEN	Gentamicin
NAL	Nalidixic acid
POS	Positive control
TET	Tetracycline

*85% N_2, 10% CO_2, 5% O_2. **Do not stack plates more than four high.

ATCC Licensed Derivative

Sensititre YeastOne antifungal plates provide accurate, true MIC results and an expanded range of antifungals, including micafungin and rezafungin.

Eliminate the time required to manage multiple protocols and increase productivity and efficiency by consolidating your antifungal susceptibility testing onto a single format with Thermo Scientific™ Sensititre™ YeastOne™ plates.

Our YeastOne plate formats offer expanded ranges of antifungals, allowing laboratories to report and track echinocandin susceptibility and resistance against *Candida* spp. Additional plates in the YeastOne portfolio include a wide range of antifungals, allowing you to perform your fungal testing on one platform with clear, easy-to-read end point determination.

All YeastOne plates include:

- Colorimetric Thermo Scientific™ alamarBlue™ agent provides reliable, easy and consistent endpoint determination with visual read options
- Room-temperature storage eliminates inventory control concerns
- Individual packaging allows laboratory to test one plate at a time with no waste
- Inclusive on-scale QC ranges provide immediate quality assurance of testing methodology
- 24-hour incubation time enables timely results

Sensititre YeastOne YO4IVD AST Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre YeastOne Broth (Y3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

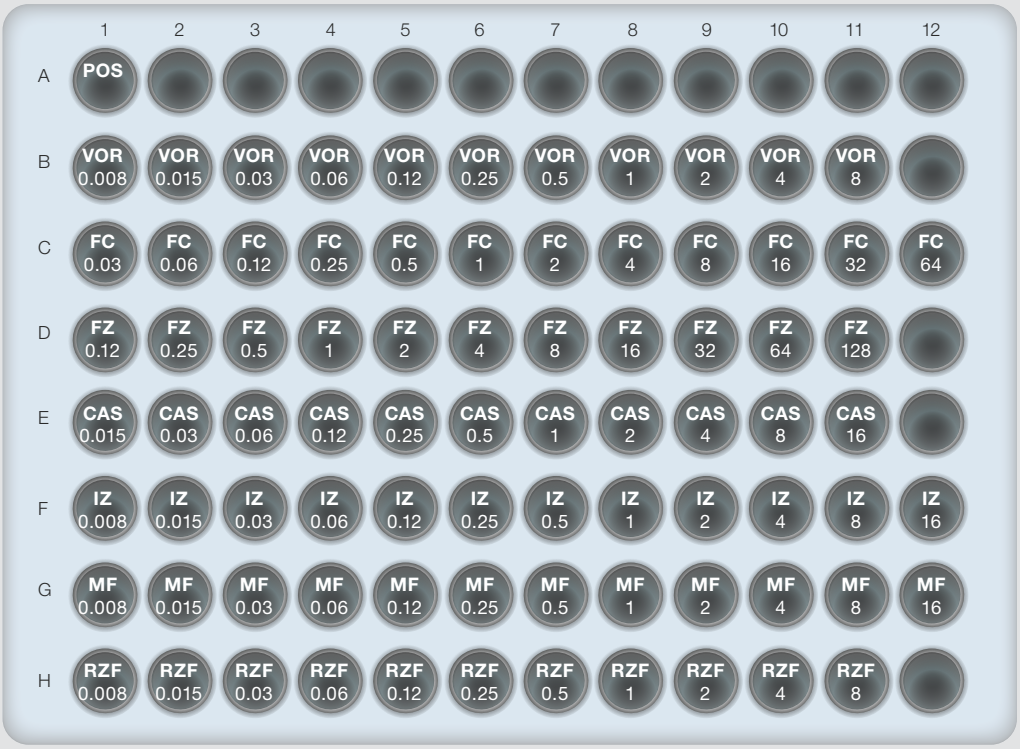
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 20 µL of suspension into Sensititre YeastOne Broth

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 35°C in a non-CO_2 incubator for 24-25 hours

Manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

FC	5-Flucytosine
CAS	Caspofungin
FZ	Fluconazole
IZ	Itraconazole
MF	Micafungin
POS	Positive control
RZF	Rezafungin
VOR	Voriconazole

ATCC Licensed Derivative

Sensititre YeastOne YO11 AST Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre YeastOne Broth (Y3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 20 µL of suspension into Sensititre YeastOne Broth

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 35°C in a non-CO_2 incubator for 24-25 hours

Manually read with Sensititre Vizion or Sensititre Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	POS	RZF 0.008	RZF 0.015	RZF 0.03	RZF 0.06	RZF 0.12	RZF 0.25	RZF 0.5	RZF 1	RZF 2	RZF 4	CAS 4
B	AB 8	AND 0.015	AND 0.03	AND 0.06	AND 0.12	AND 0.25	AND 0.5	AND 1	AND 2	AND 4	AND 8	CAS 2
C	AB 4	MF 0.008	MF 0.015	MF 0.03	MF 0.06	MF 0.12	MF 0.25	MF 0.5	MF 1	MF 2	MF 4	CAS 1
D	AB 2	VOR 0.008	VOR 0.015	VOR 0.03	VOR 0.06	VOR 0.12	VOR 0.25	VOR 0.5	VOR 1	VOR 2	MF 8	CAS 0.5
E	AB 1	ISA 0.008	ISA 0.015	ISA 0.03	ISA 0.06	ISA 0.12	ISA 0.25	ISA 0.5	ISA 1	ISA 2	ISA 4	CAS 0.25
F	AB 0.5	PZ 0.008	PZ 0.015	PZ 0.03	PZ 0.06	PZ 0.12	PZ 0.25	PZ 0.5	PZ 1	PZ 2	PZ 4	CAS 0.12
G	AB 0.25	IZ 0.015	IZ 0.03	IZ 0.06	IZ 0.12	IZ 0.25	IZ 0.5	IZ 1	IZ 2	IZ 4	PZ 8	CAS 0.06
H	AB 0.12	FZ 0.5	FZ 1	FZ 2	FZ 4	FZ 8	FZ 16	FZ 32	FZ 64	IZ 8	IZ 16	CAS 0.03

Antimicrobics

AB	Amphotericin B
AND	Anidulafungin
CAS	Caspofungin
FZ	Fluconazole
ISA	Isavuconazole
IZ	Itraconazole
MF	Micafungin
PZ	Posaconazole
POS	Positive control
RZF	Rezafungin
VOR	Voriconazole

ATCC Licensed Derivative

Sensititre Mycobacterium Tuberculosis MYCOTB Plate

Intended use	Read method
Determiniation of MICs to first and second-line anti-tuberculosis drugs for *Mycobacterium tuberculosis* isolates	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Middlebrook 7H9 with OADC (T3440)	0.5 McFarland Standard (E1041) Sensititre Saline Tween with Glass Beads (T3490)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
N/A	*Mycobacterium tuberculosis* ATCC® 27294™

Put 3-5 colonies into Saline Tween with Glass Beads to reach 0.5 McFarland Standard, Mix 100 µL into Sensititre Middlebrook 7H9 with OADC

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 35-37°C in a non-CO_2 incubator for 10-21 days

Read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	OFL 32	MXF 8	RIF 16	AMI 16	STR 32	RFB 16	PAS 64	ETH 40	CYC 256	INH 4	KAN 40	EMB 32
B	OFL 16	MXF 4	RIF 8	AMI 8	STR 16	RFB 8	PAS 32	ETH 20	CYC 128	INH 2	KAN 20	EMB 16
C	OFL 8	MXF 2	RIF 4	AMI 4	STR 8	RFB 4	PAS 16	ETH 10	CYC 64	INH 1	KAN 10	EMB 8
D	OFL 4	MXF 1	RIF 2	AMI 2	STR 4	RFB 2	PAS 8	ETH 5	CYC 32	INH 0.5	KAN 5	EMB 4
E	OFL 2	MXF 0.5	RIF 1	AMI 1	STR 2	RFB 1	PAS 4	ETH 2.5	CYC 16	INH 0.25	KAN 2.5	EMB 2
F	OFL 1	MXF 0.25	RIF 0.5	AMI 0.5	STR 1	RFB 0.5	PAS 2	ETH 1.2	CYC 8	INH 0.12	KAN 1.2	EMB 1
G	OFL 0.5	MXF 0.12	RIF 0.25	AMI 0.25	STR 0.5	RFB 0.25	PAS 1	ETH 0.6	CYC 4	INH 0.06	KAN 0.6	EMB 0.5
H	OFL 0.25	MXF 0.06	RIF 0.12	AMI 0.12	STR 0.25	RFB 0.12	PAS 0.5	ETH 0.3	CYC 2	INH 0.03	POS	POS

Antimicrobics

AMI	Amikacin
CYC	Cycloserine
EMB	Ethambutol
ETH	Ethionamide
INH	Isoniazid
KAN	Kanamycin
MXF	Moxifloxacin
OFL	Ofloxacin
PAS	Para-aminosalicylic Acid
POS	Positive control
RFB	Rifabutin
RIF	Rifampin
STR	Streptomycin

ATCC Licensed Derivative

Sensititre NOCARDIA Plate

Intended use	Read method
Susceptibility testing of Nocardia species and other aerobic actinomycetes	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre MHB with TES (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
R4601971	*Escherichia coli* ATCC® 35218™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 50 µL of suspension into Sensititre MHB with TES

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 30°C in a non-CO_2 air incubator for 72 hours*

Read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	TOB 2	TOB 4	TOB 8	TOB 16	TOB 32	TOB 64	LZD 0.5	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16
B	SXT 0.06/1.19	SXT 0.12/2.38	SXT 0.25/4.75	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	SXT 8/152	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1
C	DOX 2	DOX 4	DOX 8	DOX 16	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	CIP 16
D	AUG2 2/1	AUG2 4/2	AUG2 8/4	AUG2 16/8	AUG2 32/16	AUG2 64/32	AUG2 128/64	MXF 0.015	MXF 0.03	MXF 0.06	MXF 0.12	MXF 0.25
E	MXF 0.5	MXF 1	MXF 2	MXF 4	MXF 8	AMI 0.5	AMI 1	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32
F	IMI 0.12	IMI 0.25	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	IMI 16	IMI 32	AXO 1	AXO 2	AXO 4
G	AXO 8	AXO 16	AXO 32	AXO 64	CLA 0.03	CLA 0.06	CLA 0.12	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4
H	CLA 8	CLA 16	MIN 0.06	MIN 0.12	MIN 0.25	MIN 0.5	MIN 1	MIN 2	MIN 4	MIN 8	MIN 16	POS

Antimicrobics

AMI	Amikacin
AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AXO	Ceftriaxone
CIP	Ciprofloxacin
CLA	Clarithromycin
DOX	Doxycycline
IMI	Imipenem
LZD	Linezolid
MIN	Minocycline
MXF	Moxifloxacin
POS	Positive control
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

*For *Nocardia* spp. and other aerobic actinomycetes, incubate at 35°C in a non-CO_2 incubator for 2-3 days.

ATCC Licensed Derivative®

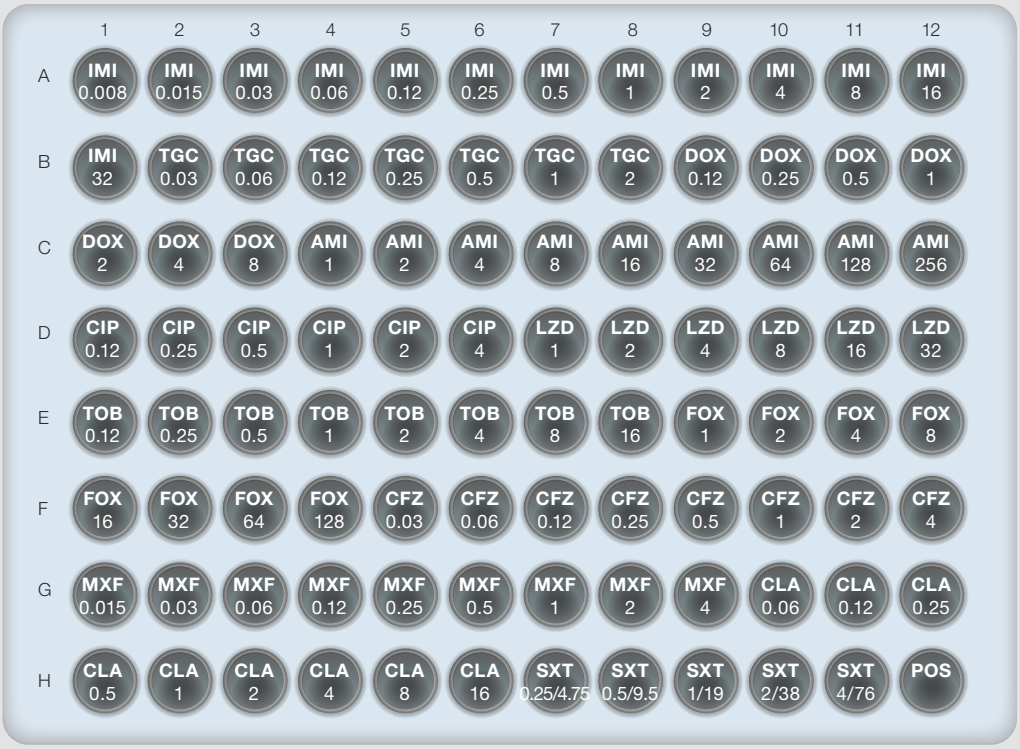
Sensititre Rapid Growing Mycobacteria RAPMYCO2 Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing rapidly growing mycobacterium species	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre MHB with TES (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
N/A	*Mycobacterium peregrinum* ATCC® 700686
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
N/A	*Mycobacterium smegmatis* ATCC® 19420™

1. Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 50 µL of suspension into Sensititre MHB with TES
2. Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette
3. Seal Sensititre plate and incubate at 30°C in a non-CO_2 air incubator for 72 hours*
4. Read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
FOX	Cefoxitin
CIP	Ciprofloxacin
CLA	Clarithromycin
CFZ	Clofazimine
DOX	Doxycycline
IMI	Imipenem
LZD	Linezolid
MXF	Moxifloxacin
POS	Positive control
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

ATCC Licensed Derivative

Sensititre Slow Growing Mycobacteria SLOMYCO2 Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing slow growing mycobacterium species	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre MHB with OADC (T8005*, T8006**)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
N/A	*Mycobacterium smegmatis* ATCC 19420
N/A	*Mycobacterium peregrinum* ATCC 700686
N/A	*Mycobacterium avium* ATCC 700898

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 50 µL of suspension into Sensititre MHB with TES

Inoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 30°C in a non-CO_2 air incubator for 72 hours*

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	SXT 0.25/4.75	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1	DOX 2	DOX 4	DOX 8
B	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16	LZD 32	RFB 0.12	RFB 0.25	RFB 0.5	RFB 1	RFB 2	RFB 4
C	AMI 1	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	AMI 64	AMI 128	AMI 256	MXF 0.015	MXF 0.03	MXF 0.06
D	MXF 0.12	MXF 0.25	MXF 0.5	MXF 1	MXF 2	MXF 4	CFZ 0.015	CFZ 0.03	CFZ 0.06	CFZ 0.12	CFZ 0.25	CFZ 0.5
E	CFZ 1	CFZ 2	CFZ 4	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	STR 0.5	STR 1
F	STR 2	STR 4	STR 8	STR 16	STR 32	CLA 0.06	CLA 0.12	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4
G	CLA 8	CLA 16	CLA 32	CLA 64	MIN 0.06	MIN 0.12	MIN 0.25	MIN 0.5	MIN 1	MIN 2	MIN 4	MIN 8
H	RIF 0.004	RIF 0.008	RIF 0.015	RIF 0.03	RIF 0.06	RIF 0.12	RIF 0.25	RIF 0.5	RIF 1	RIF 2	RIF 4	POS

Antimicrobics

AMI	Amikacin
CIP	Ciprofloxacin
CLA	Clarithromycin
CFZ	Clofazimine
DOX	Doxycycline
LZD	Linezolid
MIN	Minocycline
MXF	Moxifloxacin
POS	Positive control
RFB	Rifabutin
RIF	Rifampin
STR	Streptomycin
SXT	Trimethoprim / Sulfamethoxazole

*Research use only. **IVD/CE labelled

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Offering true MIC results for over 40+ veterinary-specific antimicrobials and a broad portfolio of host animal-specific AST plates, the Sensititre System bolsters your ability to improve animal outcomes.

Emergent diseases and evolving multidrug resistance demand earlier intervention with the latest antimicrobials. To effectively treat animal and zoonotic infections, you need a microbiology offering that delivers relevant, more accurate results every time. For standard and custom solutions formulated specifically for veterinary microbiology laboratories, choose the Sensititre AST System.

Host animal-specific AST formats ensure compliance with veterinary CLSI recommendations. New antimicrobials valnemulin and aminosidin are now available for custom solutions.*

* Not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Vet standard plate formats

		COMPANION		BOVINE/PORCINE		AVIAN	EQUINE	URINE (all)	BOVINE (mastitis)	TOPICAL (all)
		GRAM NEGATIVE	GRAM POSITIVE	GRAM NEGATIVE/POSITIVE						
	INSTRUMENTS	COMPGN1F	COMPGP1F	BOPO7F	BOPO6F	AVIAN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
FLUORESCENT PLATES	AUTOREAD, SEMI-AUTOMATED AND MANUAL READ (ARIS HiQ, OptiRead, Vizion, Manual Viewbox)	●	●	●	●	●	●	●	●	
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Vizion, Manual Viewbox)									●
Jump to page ▶		38	39	40	41	42	43	44	45	46

Sensititre Companion Animal Gram Negative COMPGN1F Plate with Pradofloxacin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

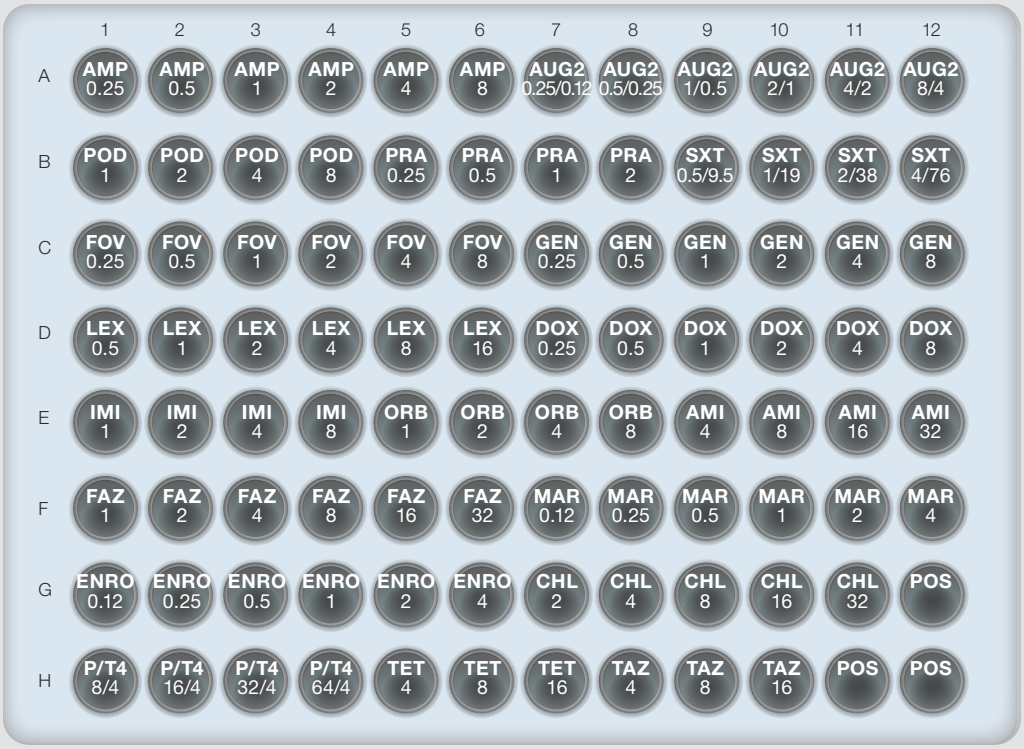
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL* or 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
FAZ	Cefazolin
POD	Cefopodoxime
FOV	Cefovecin
TAZ	Ceftazidime
LEX	Cephalexin
CHL	Chloramphenicol
DOX	Doxycycline
ENRO	Enrofloxacin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
ORB	Orbifloxacin
P/T4	Piperacillin / Tazobactam constant 4
POS	Positive control
PRA	Pradofloxacin
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

*For Proteus spp.

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Sensititre Companion Animal Gram Positive COMPGP1F Plate with Pradofloxacin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

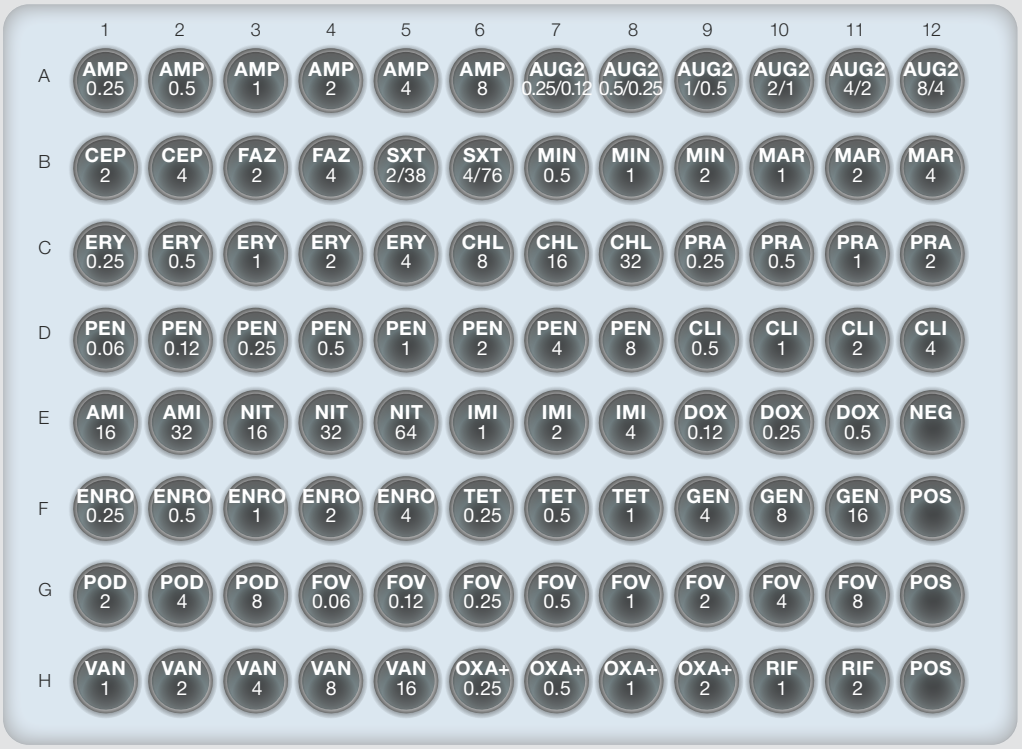
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL or 30 µL* of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours**

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



AMI	Amikacin
AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
FAZ	Cefazolin
POD	Cefopodoxime
FOV	Cefovecin
CEP	Cephalothin
CHL	Chloramphenicol
CLI	Clindamycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
MIN	Minocycline
NEG	Negative control
NIT	Nitrofurantoin
OXA+	Oxacillin + 2% NaCl
PEN	Penicillin
POS	Positive control
PRA	Pradofloxacin
RIF	Rifampin
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole
VAN	Vancomycin

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. **Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp.

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Sensititre Vet Bovine BOPO7F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin‡	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4609015	*Streptococcus pneumoniae* ATCC®49619
N/A	*Histophilus somni* ATCC 700025
N/A	*Actinobacillus pleuropneumoniae* ATCC 27090

1. Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 1 µL*, 10 µL, or 30 µL** of suspension into MHB
2. Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette
3. Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***
4. Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	TET 0.5	TET 1	TET 2	TET 4	TET 8
B	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AMP 16	GEN 1	GEN 2	GEN 4	GEN 8	GEN 16
C	TIA 0.5	TIA 1	TIA 2	TIA 4	TIA 8	TIA 16	TIA 32	TIP 1	TIP 2	TIP 4	TIP 8	TIP 16
D	TYLT 0.5	TYLT 1	TYLT 2	TYLT 4	TYLT 8	TYLT 16	TYLT 32	TIL 2	TIL 4	TIL 8	TIL 16	NEO 4
E	NEO 8	NEO 16	NEO 32	TUL 8	TUL 16	TUL 32	TUL 64	ENRO 0.12	ENRO 0.25	ENRO 0.5	ENRO 1	ENRO 2
F	CLI 0.25	CLI 0.5	CLI 1	CLI 2	CLI 4	CLI 8	CLI 16	DANO 0.12	DANO 0.25	DANO 0.5	DANO 1	POS
G	XNL 0.25	XNL 0.5	XNL 1	XNL 2	XNL 4	XNL 8	GAM 1	GAM 2	GAM 4	GAM 8	SDM 256	POS
H	FFN 0.25	FFN 0.5	FFN 1	FFN 2	FFN 4	FFN 8	SPE 8	SPE 16	SPE 32	SPE 64	SXT 2/38	POS

Antimicrobics

AMP	Ampicillin
XNL	Ceftiofur
CLI	Clindamycin
DANO	Danofloxacin
ENRO	Enrofloxacin
FFN	Florfenicol
GAM	Gamithromycin
GEN	Gentamicin
NEO	Neomycin
PEN	Penicillin
POS	Positive control
SPE	Spectinomycin
SDM	Sulphadimethoxine
TET	Tetracycline
TIA	Tiamulin
TIP	Tildipirosin
TIL	Tilmicosin
SXT	Trimethoprim / Sulfamethoxazole
TUL	Tulathromycin
TYLT	Tylosin tartrate

*For *Proteus* spp. **Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. ***Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp. ‡For *Mannheimia hemolytica, Pasteurella multocida, Bordetella bronchiseptica, Streptococcus pneumoniae, Histophilus somni*, and *Actinobacillus pleuropneumoniae* isolates, contact your local Thermo Fisher Microbiology respresentative for protocol specifications

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Sensititre Vet Bovine BOPO6F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

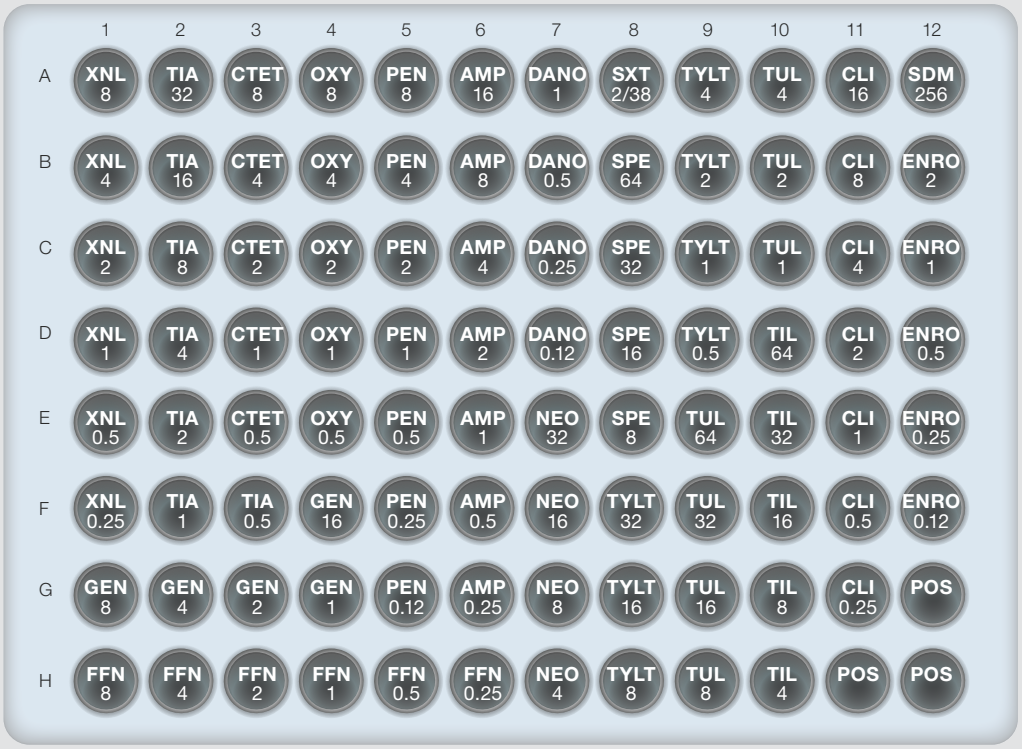
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4609015	*Streptococcus pneumoniae* ATCC®49619
N/A	*Histophilus somni* ATCC 700025
N/A	*Actinobacillus pleuropneumoniae* ATCC 27090

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 1 µL*, 10 µL, or 30 µL** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMP	Ampicillin
XNL	Ceftiofur
CTET	Chlortetracycline
CLI	Clindamycin
DANO	Danofloxacin
ENRO	Enrofloxacin
FFN	Florfenicol
GEN	Gentamicin
NEO	Neomycin
OXY	Oxytetracycline
PEN	Penicillin
POS	Positive control
SPE	Spectinomycin
SDM	Sulphadimethoxine
TIA	Tiamulin
TIL	Tilmicosin
SXT	Trimethoprim / Sulfamethoxazole
TUL	Tulathromycin
TYLT	Tylosin tartrate

*For *Proteus* spp. **Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. ***Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp.

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Sensititre Vet Avian AVIAN1F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

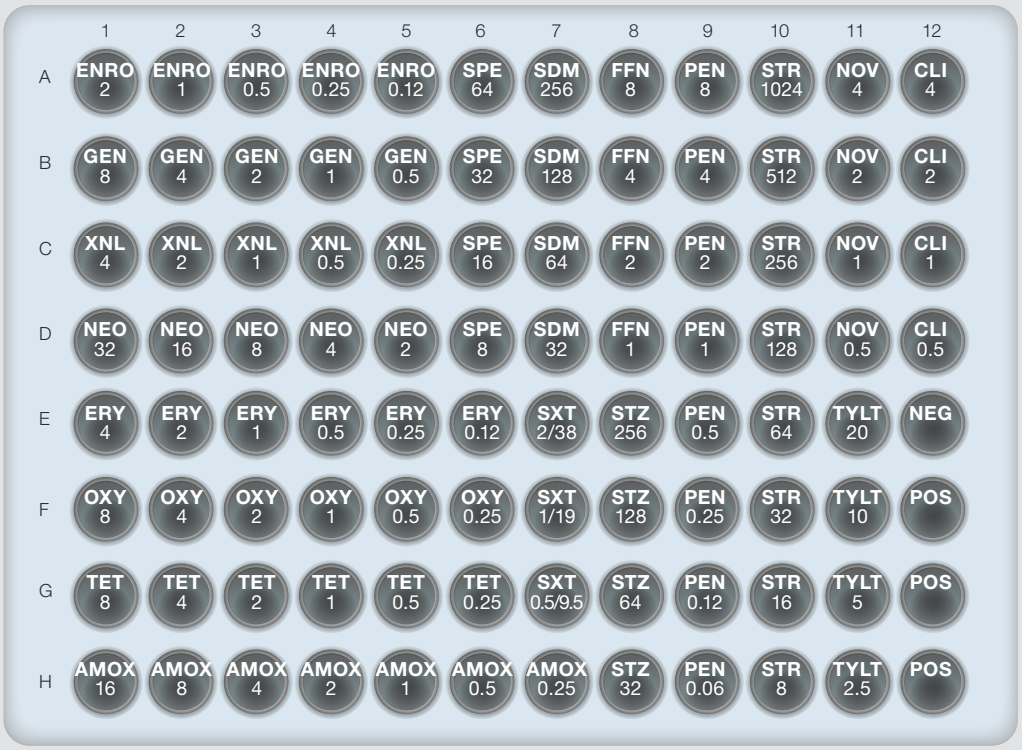
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1µL*, 10 µL, or 30 µL** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMOX	Amoxicillin
XNL	Ceftiofur
CLI	Clindamycin
ENRO	Enrofloxacin
ERY	Erythromycin
FFN	Florfenicol
GEN	Gentamicin
NEG	Negative control
NEO	Neomycin
NOV	Novobiocin
OXY	Oxytetracycline
PEN	Penicillin
POS	Positive control
SPE	Spectinomycin
STR	Streptomycin
SDM	Sulphadimethoxine
STZ	Sulphathiazole
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole
TYLT	Tylosin tartrate

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

ATCC Licensed Derivative

Sensititre Equine EQUIN2F AST Plate

Intended use	Read method
Antimicrobial susceptibility testing of non-fastidious Gram positive and Gram negative isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

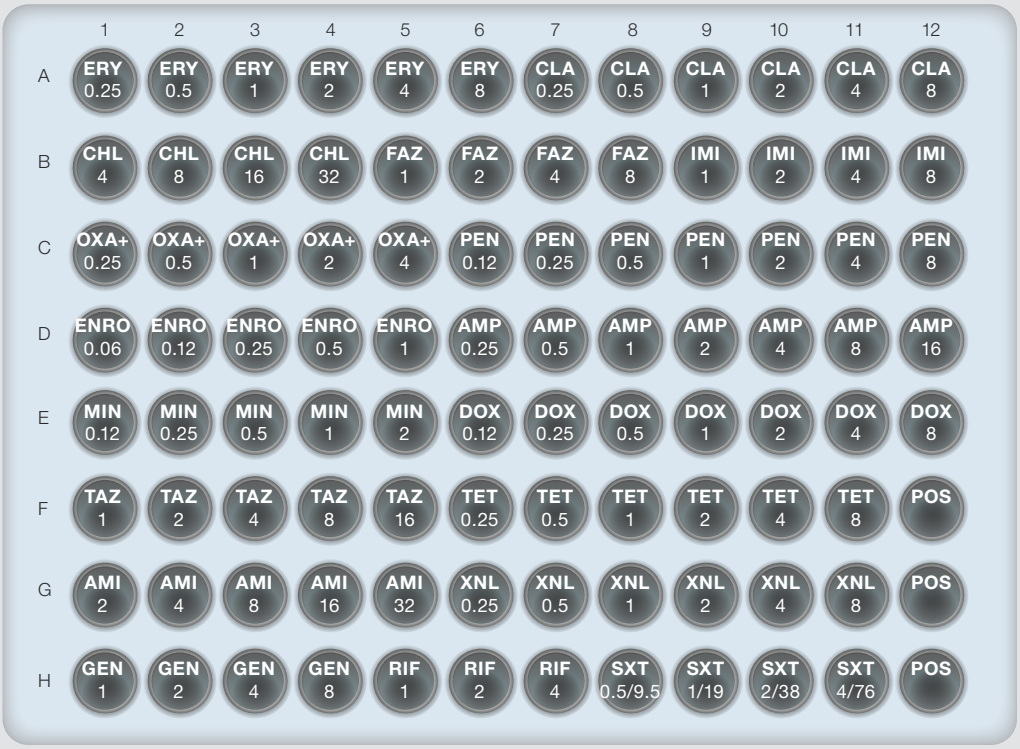
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL, or 30 µL** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
AMP	Ampicillin
FAZ	Cefazolin
TAZ	Ceftazidime
XNL	Ceftiofur
CHL	Chloramphenicol
CLA	Clarithromycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
GEN	Gentamicin
IMI	Imipenem
MIN	Minocycline
OXA+	Oxacillin +2% NaCl
PEN	Penicillin
POS	Positive control
RIF	Rifampin
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

*For *Proteus* spp. **For Enterobacteriaceae and Non-Enterobacteriaceae. ***For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

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Sensititre Urinary CMV1BURF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL, or 30 µL** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	POS	POS	POS	AMP 256	AUG2 256/128	ENRO 4	POS	POS	POS	AMP 256	AUG2 256/128	ENRO 4
B	SXT 8/152	TET 128	LEX 256	AMP 128	AUG2 128/64	ENRO 2	SXT 8/152	TET 128	LEX 256	AMP 128	AUG2 128/64	ENRO 2
C	SXT 4/76	TET 64	LEX 128	AMP 64	AUG2 64/32	ENRO 1	SXT 4/76	TET 64	LEX 128	AMP 64	AUG2 64/32	ENRO 1
D	SXT 2/38	TET 32	LEX 64	AMP 32	AUG2 32/16	ENRO 0.5	SXT 2/38	TET 32	LEX 64	AMP 32	AUG2 32/16	ENRO 0.5
E	XNL 4	TET 16	LEX 32	AMP 16	AUG2 16/8	ENRO 0.25	XNL 4	TET 16	LEX 32	AMP 16	AUG2 16/8	ENRO 0.25
F	XNL 2	TET 8	LEX 16	AMP 8	AUG2 8/4	ENRO 0.12	XNL 2	TET 8	LEX 16	AMP 8	AUG2 8/4	ENRO 0.12
G	XNL 1	TET 4	LEX 8	AMP 4	AUG2 4/2	ENRO 0.06	XNL 1	TET 4	LEX 8	AMP 4	AUG2 4/2	ENRO 0.06
H	XNL 0.5	TET 2	LEX 4	AMP 2	AUG2 2/1	ENRO 0.03	XNL 0.5	TET 2	LEX 4	AMP 2	AUG2 2/1	ENRO 0.03

Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
XNL	Ceftiofur
LEX	Cephalexin
ENRO	Enrofloxacin
POS	Positive control
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

*For *Proteus* spp. **Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. ***Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp.

ATCC Licensed Derivative

Sensititre Vet Mastitis CMV1AMAF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin. (For *Streptococcus pneumoniae* isolates, contact your local Thermo Fisher Scientific Microbiology representative for protocol specifications)	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

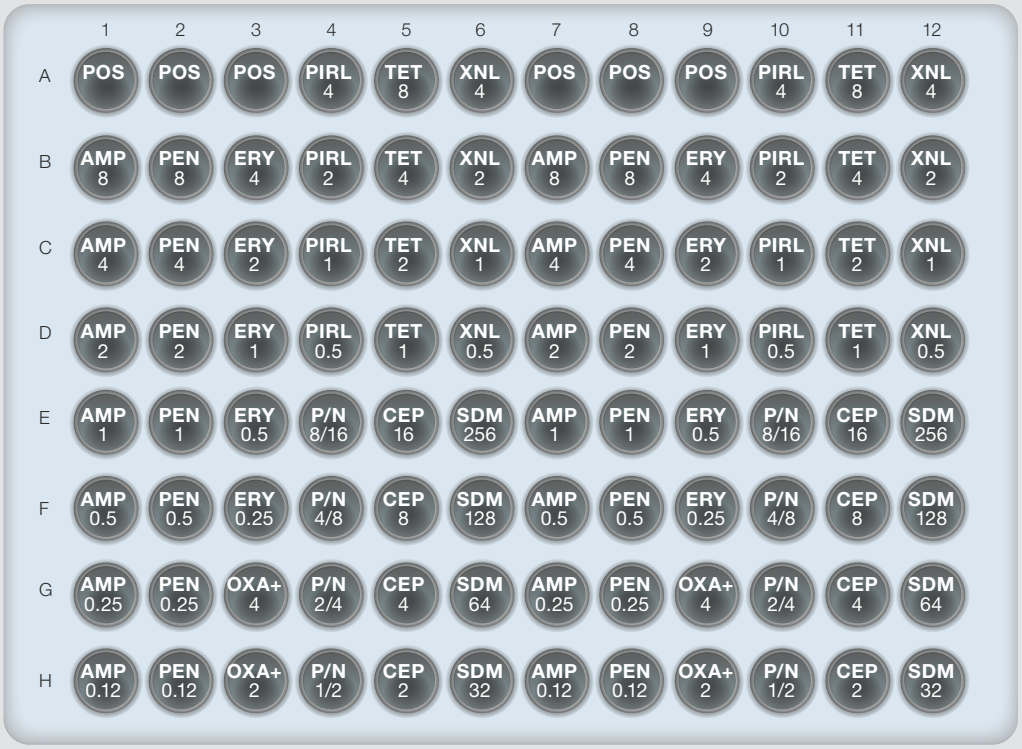
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 1 µL*, 10 µL, or 30 µL** of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36ºC in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMP	Ampicillin
XNL	Ceftiofur
CEP	Cephalothin
ERY	Erythromycin
OXA+	Oxacillin +2% NaCl
PEN	Penicillin
P/N	Penicillin / Novobiocin
PIRL	Pirlimycin
POS	Positive control
SDM	Sulphadimethoxine
TET	Tetracycline

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. **Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp.

ATCC Licensed Derivative®

Sensititre Breakpoint Eye Two-Isolate JOEYE2 Plate

Intended use	Read method
Perform accurate AST with this dual-isolate plate for breakpoint testing of topical compounds	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

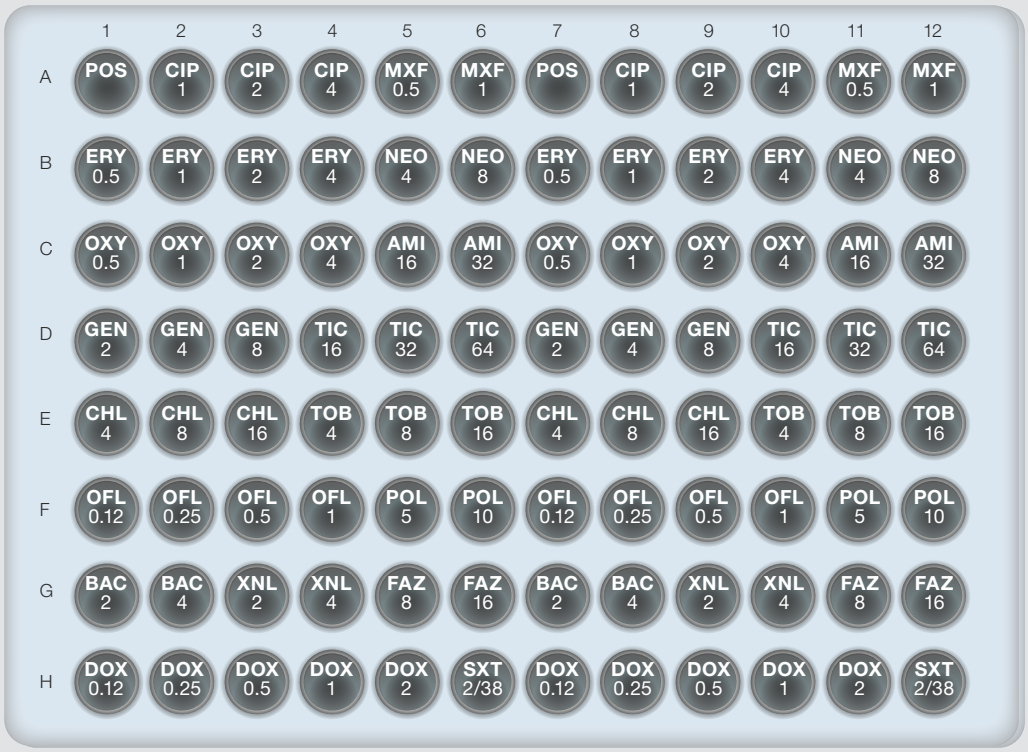
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36ºC in a non-CO_2 incubator for 18-24 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AMI	Amikacin
BAC	Bacitracin
FAZ	Cefazolin
XNL	Ceftiofur
CHL	Chloramphenicol
CIP	Ciprofloxacin
DOX	Doxycycline
ERY	Erythromycin
GEN	Gentamicin
MXF	Moxifloxacin
NEO	Neomycin
OFL	Ofloxacin
OXY	Oxytetracycline
POL	Polymixin B
POS	Positive control
TIC	Ticarcillin
TOB	Tobramycin
SXT	Trimethoprim / Sulfamethoxazole

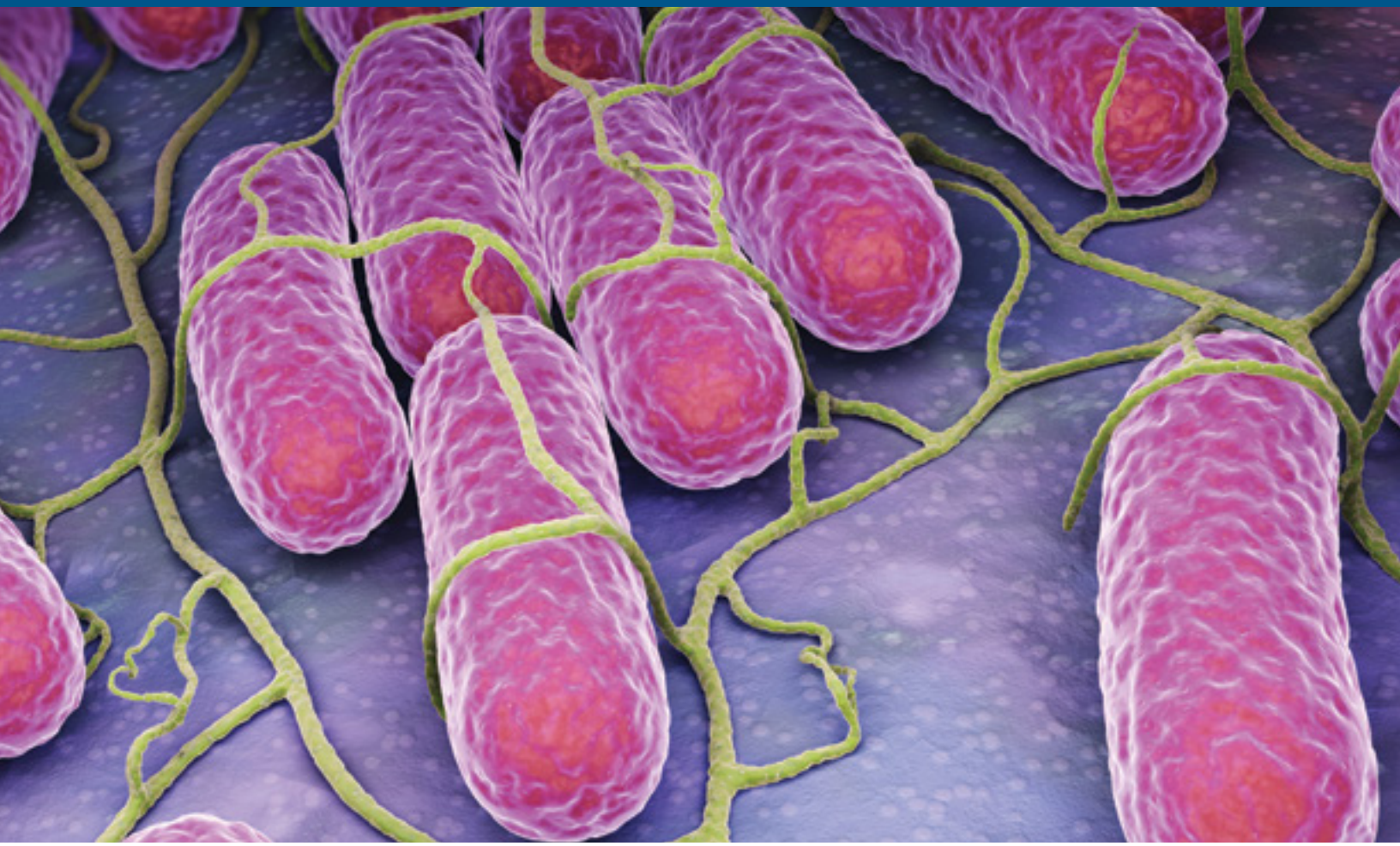
ATCC Licensed Derivative


thermo
scientific

Identifying antimicrobial resistance patterns is vital to your ability to better understand key pathogenic drivers and more effectively respond to emerging resistance.

The Sensititre System provides a standardized AMR surveillance tool to support public health and national reference laboratories, enabling you to comply with government surveillance mandates while streamlining workflow. Harmonize your surveillance AST with the method of choice for global AMR programs, including:

- US National Antimicrobial Resistance Monitoring System (NARMS), coordinated via FDA/CVM, USDA and the CDC
- US CDC Antibiotic Resistance Lab Network
- EU Monitoring System of Zoonoses



Surveillance standard plate formats

		NARMS					
		GRAM NEGATIVE			GRAM POSITIVE		CAMPYLO-BACTER
	INSTRUMENTS	CMV3AGNF	CMV4AGNF	CMV5AGNF	CMV3AGPF	CMV4AGP	CMVCAMPY
FLUORESCENT PLATES	AUTOREAD, SEMI-AUTOMATED AND MANUAL READ (ARIS HiQ, OptiRead, Vizion, Manual Viewbox)	●	●	●	●		
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Vizion, Manual Viewbox)					●	●
Jump to page ▶		50	51	52	53	54	55

Sensititre NARMS Gram Negative CMV3AGNF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Salmonella* and *Escherichia coli* isolates as part of The National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

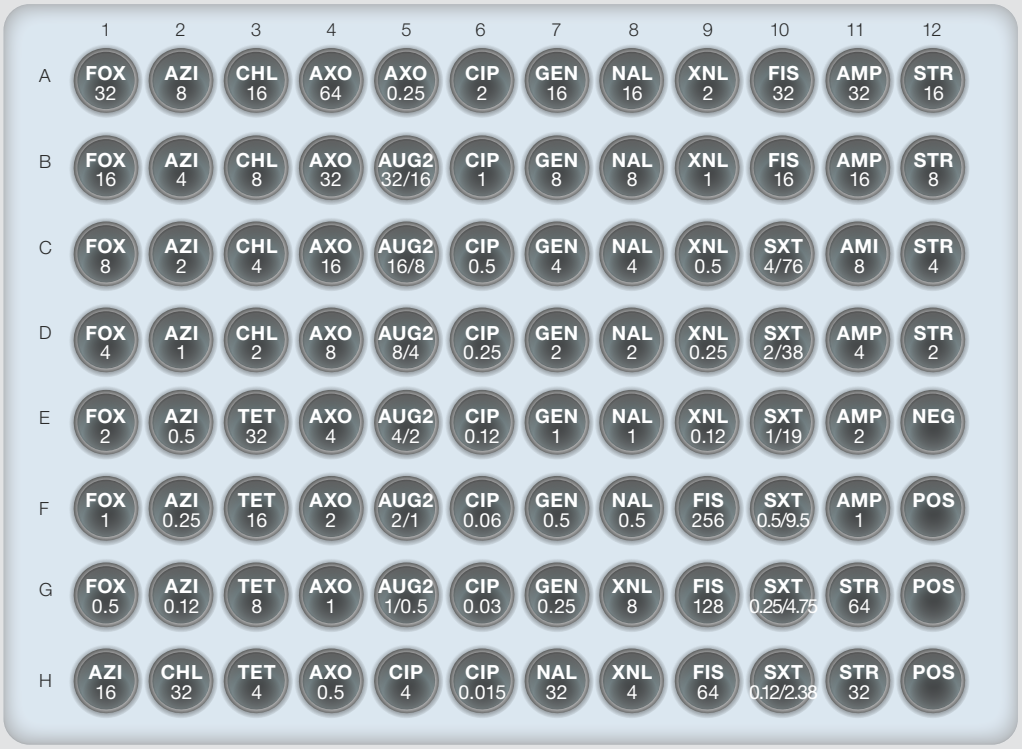
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
AZI	Azithromycin
FOX	Cefoxitin
XNL	Ceftiofur
AXO	Ceftriaxone
CHL	Chloramphenicol
CIP	Ciprofloxacin
GEN	Gentamicin
NAL	Nalidixic acid
NEG	Negative control
POS	Positive control
STR	Streptomycin
FIS	Sulfisoxazole
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

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Sensititre NARMS Gram Negative CMV4AGNF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Salmonella* and *Escherichia coli* isolates as part of The National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Autoread or manual** Sensititre ARIS HiQ (V3090) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

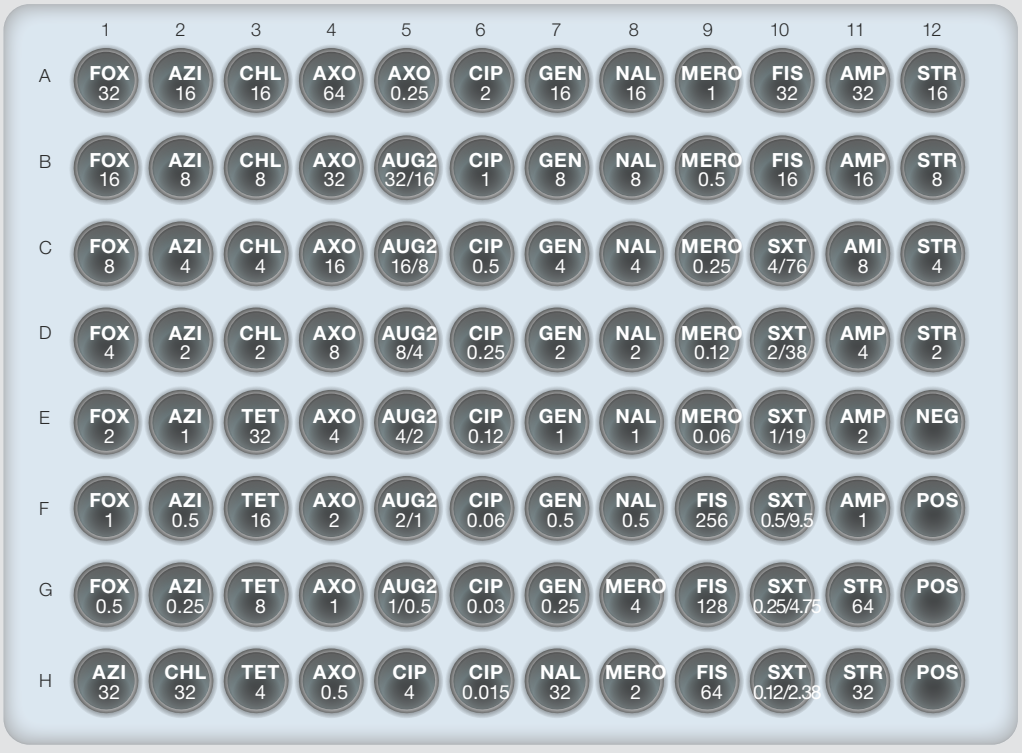
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer. Mix 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
AZI	Azithromycin
FOX	Cefoxitin
AXO	Ceftriaxone
CHL	Chloramphenicol
CIP	Ciprofloxacin
GEN	Gentamicin
MERO	Meropenem
NAL	Nalidixic acid
NEG	Negative control
POS	Positive control
STR	Streptomycin
FIS	Sulfisoxazole
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

ATCC Licensed Derivative

Sensititre NARMS Gram Negative CMV5AGNF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Salmonella* and *Escherichia coli* isolates as part of The National Antimicrobial National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

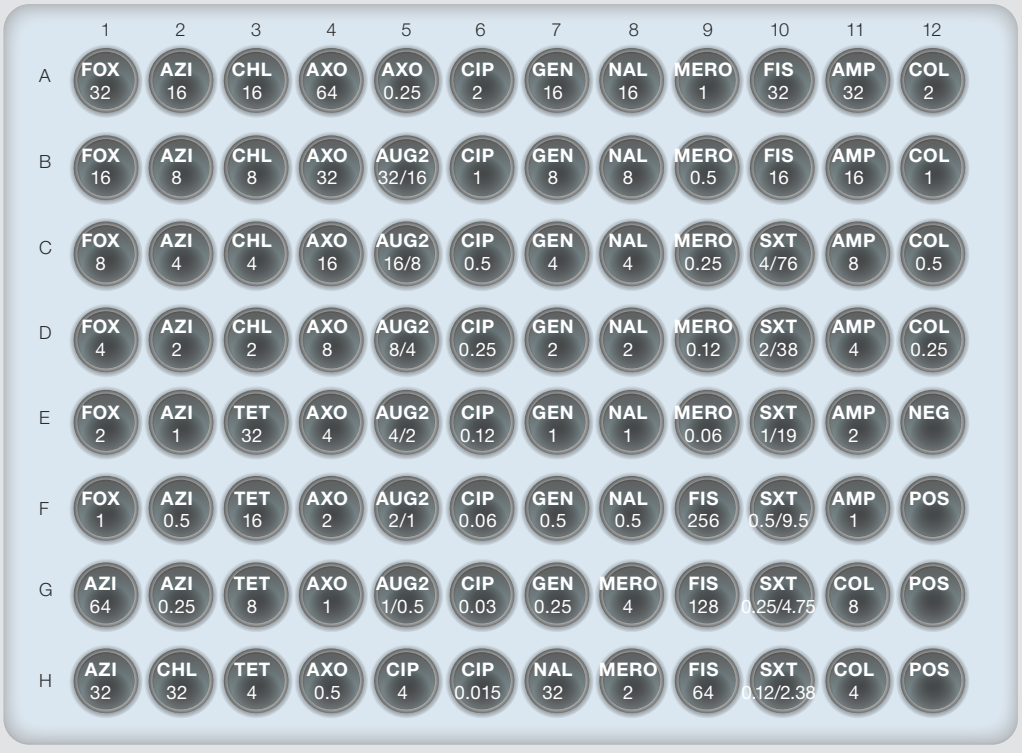
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18 hours

Read automatically with ARIS HiQ or OptiRead; read manually with Vizion or Manual Viewbox



Antimicrobics

AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
AMP	Ampicillin
AZI	Azithromycin
FOX	Cefoxitin
AXO	Ceftriaxone
CHL	Chloramphenicol
CIP	Ciprofloxacin
COL	Colistin
GEN	Gentamicin
MERO	Meropenem
NAL	Nalidixic acid
NEG	Negative control
POS	Positive control
FIS	Sulfisoxazole
TET	Tetracycline
SXT	Trimethoprim / Sulfamethoxazole

ATCC Licensed Derivative

Sensititre NARMS Gram Positive CMV3AGPF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Enterococcus* isolates as part of the National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

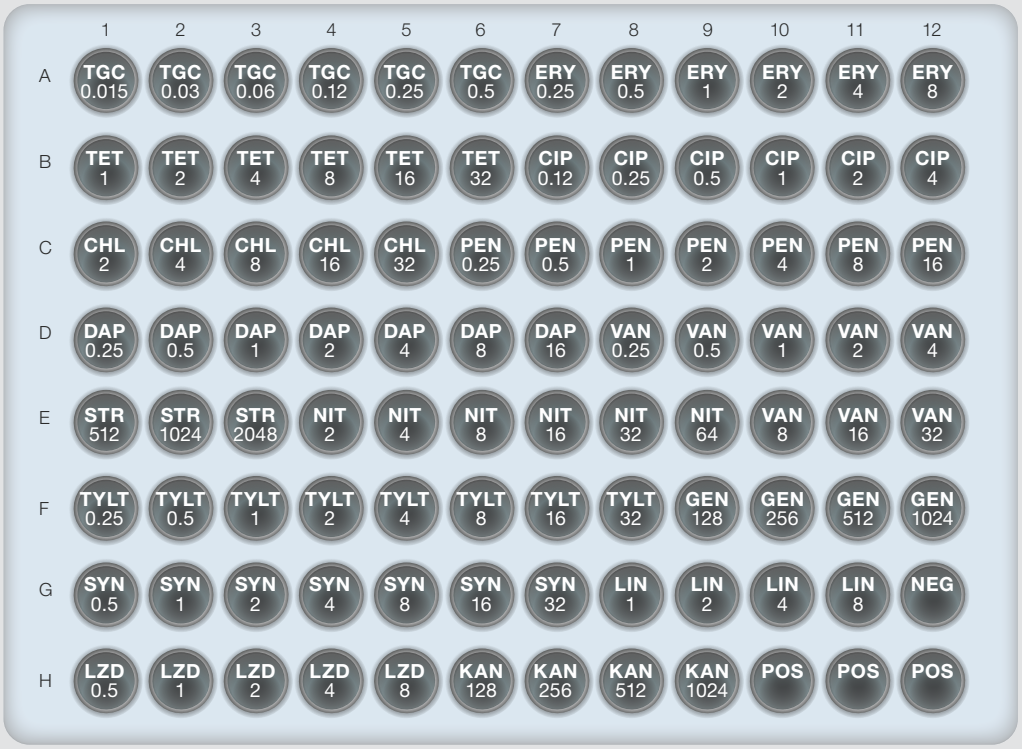
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4601996	*Enterococcus faecalis* ATCC® 51299™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL of suspension into MHB

Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18 hours*

Automatically read with ARIS HiQ or OptiRead or manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

CHL	Chloramphenicol
CIP	Ciprofloxacin
DAP	Daptomycin
ERY	Erythromycin
GEN	Gentamicin
KAN	Kanamycin
LZD	Linezolid
LIN	Lincomycin
NEG	Negative control
NIT	Nitrofurantoin
PEN	Penicillin
POS	Positive control
SYN	Quinupristin / Dalfoprisitn
STR	Streptomycin
TET	Tetracycline
TGC	Tigecycline
TYLT	Tylosin tartarte
VAN	Vancomycin

*Linezolid and nitrofurantoin should be read manually at 18 hours and vancomycin should be read manually at 24 hours.

ATCC Licensed Derivative

Sensititre NARMS Gram Positive CMV4AGP Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Enterococcus* isolates as part of the National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4601996	*Enterococcus faecalis* ATCC® 51299™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™

1. Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 10 µL of suspension into MHB
2. Inoculate plate with 50 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette
3. Seal Sensititre plate and incubate at 34-36°C in a non-CO_2 incubator for 18 hours*
4. Manually read with Sensititre Vizion or Sensititre Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	TGC 0.015	TGC 0.03	TGC 0.06	TGC 0.12	TGC 0.25	TGC 0.5	TET 1	TET 2	TET 4	TET 8	TET 16	TET 32
B	DAP 0.25	DAP 0.5	DAP 1	DAP 2	DAP 4	DAP 8	DAP 16	LZD 0.5	LZD 1	LZD 2	LZD 4	LZD 8
C	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	ERY 8	STR 64	STR 128	STR 256	STR 512	STR 1024	STR 2048
D	GEN 16	GEN 32	GEN 64	GEN 128	GEN 256	GEN 512	GEN 1024	NIT 2	NIT 4	NIT 8	NIT 16	NIT 32
E	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	CIP 16	NIT 64	NIT 128	NIT 256	NIT 512
F	VAN 0.25	VAN 0.5	VAN 1	VAN 2	VAN 4	VAN 8	VAN 16	VAN 32	AVL 4	AVL 8	AVL 16	AVL 32
G	AMP 0.25	AMP 0.5	AMP 1	AMP 2	SYN 0.5	SYN 1	SYN 2	SYN 4	SYN 8	SYN 16	SYN 32	POS
H	AMP 4	AMP 8	AMP 16	AMP 32	CHL 2	CHL 4	CHL 8	CHL 16	CHL 32	CHL 64	POS	NEG

Antimicrobics

AMP	Ampicillin
AVL	Avilamycin
CHL	Chloramphenicol
CIP	Ciprofloxacin
DAP	Daptomycin
ERY	Erythromycin
GEN	Gentamicin
LZD	Linezolid
NEG	Negative control
NIT	Nitrofurantoin
POS	Positive control
SYN	Quinupristin / Dalfopristin
STR	Streptomycin
TET	Tetracycline
TGC	Tigecycline
VAN	Vancomycin

*Linezolid and nitrofurantoin should be read manually at 18 hours and vancomycin should be read manually at 24 hours.

ATCC Licensed Derivative

Sensititre NARMS Campylobacter CMVCAMPY Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Campylobacter* isolates part of The National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	**Manual** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller-Hinton broth and lysed horse blood (CP112)	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)

Recommended routine QC strains

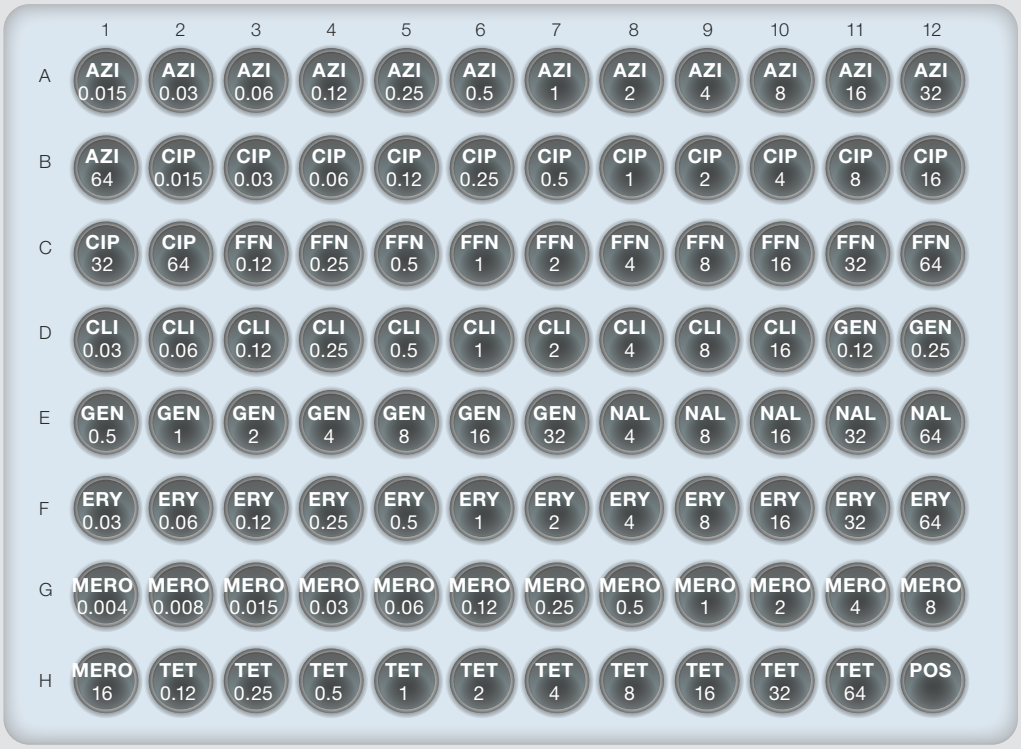
Culti-Loops product code	Organism description
R4609498	*Campylobacter jejuni subsp. jejuni* ATCC® 33560™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus subsp. aureus* ATCC® 29213™

Put 3-5 colonies into Sensititre MHB 5 mL to reach a 0.5 McFarland Standard, mix 100 µL into Sensititre MHB with LHB

Innoculate plate with 100 µL volume per well of the suspension using the Sensititre AIM or Multi-Channel Pipette

Seal Sensititre plate and incubate at 42°C for 24hrs or 36-37°C for 48hrs

Manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

AZI	Azithromycin
CIP	Ciprofloxacin
CLI	Clindamycin
ERY	Erythromycin
FFN	Florfenicol
GEN	Gentamicin
MERO	Meropenem
NAL	Nalidixic acid
POS	Positive control
TET	Tetracycline

ATCC Licensed Derivative

Customer service and installation

Thermo Fisher Scientific is committed to providing industry-leading customer service. An important part of this service is provided by our dedicated technical support experts. Our team of friendly, experienced microbiologists and engineers are available to give product advice or to help with any technical questions or issues you may have, in your local language.

We provide an end-to-end solution for instrument installation, support and servicing through a network of fully trained Field Service Engineers. And, we can help you set your laboratory up for success and ensure high productivity with a Thermo Scientific™ Extended Service Agreement.

Thermo Fisher Scientific is equipped to deliver a variety of global services to keep you up and running. From preventative maintenance and corrective services to continued application assistance provided by technical scientists, get tailored solutions and exceptional support from the experts in microbiology.

When you choose Thermo Scientific products for your microbiology needs, consider it the start of a valuable partnership. Whether you need assistance with protocols, product transitions or troubleshooting, our team of experts is ready to help.

For more information on how to find solutions perfectly matched for your AST program, please contact your local Thermo Fisher Scientific Microbiology representative or visit us at thermofisher.com/AST

Supporting you along your Sensititre journey

To provide you with the highest level of support, we have dedicated teams globally to answer your everyday questions and needs. Our objective is to ensure you receive superior personalized service regardless of your geographical location, thereby supporting lab productivity.

To assist you with your inquiries, our Technical Support teams will ask for preliminary information such as:

- Plate code
- Lot number
- Expiry
- Description of problem

Further information will be asked on:

- Organism/drug
- Quality control including organism storage and use
- Sample preparation including broth and McFarland details
- Plate reading
- Software
- Service status of your instruments

Local Technical Support contact details:

USA
microbiology.ts.us@thermofisher.com
1-800-255-6730 option 2

Trust in the quality of the Sensititre System

From the receipt of a new antimicrobial compound to a finished broth microdilution plate, the Sensititre plate manufacturing process is thoroughly quality controlled to ensure the utmost integrity of our products.

The manufacturing process is carefully monitored and the finished product tested for performance with as many as 14 different quality control (QC) organisms. All plates undergo the same intensity of testing regardless of whether they will be used as Research Use Only, Veterinary Use or In-vitro Diagnostic Use, ensuring our commitment to product quality and performance.

The manufacturing process

- Antimicrobial compound check: potency & solubility
- Fresh stock suspensions for each day of manufacture
- Liquid level check of dosed plates
- Continuous in-process monitoring of manufacturing equipment
- Performance QC testing
- Labelling & packaging check
- Product release

Quality control

To ensure your laboratory antimicrobial susceptibility testing solutions are providing accurate and reliable results the need for comprehensive Quality Control (QC) testing is paramount. Thermo Scientific™ Culti-Loops™ Quality Control organisms enable quick and safe preparation of cultures for QC testing. They are ready-to-use bacteriological loops containing gel-stabilised micro-organisms. Each loop is individually packaged in a foil pouch and each pack contains five loops.

Culti-Loops offer a full portfolio of QC strains according to recommendations by CLSI and EUCAST; the strains are fully characterised harbouring a variety of antimicrobial resistance patterns.

To recover the organism, follow the three simple set up steps:

Open package

Apply to warm agar

Incubate

Perform quality control testing with the most comprehensive range of microorganism strains recommended by CLSI and EUCAST. Culti-Loops enable quick and safe preparation of ATCC® and NCTC cultures for QC testing. They are ready-to-use bacteriological loops containing gel-stabilised micro-organisms. Each loop is individually packaged in a foil pouch in a pack of five loops.

Below is a list of Culti-Loops containing the recommended QC strains for EUCAST and CLSI test methods:

Culti-Loops part number		Description	ATCC® strain	Characteristics	EUCAST		CLSI	
					Routine testing	Extended testing	Routine testing	Extended testing
NEW	R4601312	*Aspergillus flavus*	204304™		✓		✓	
NEW	R4601311	*Aspergillus fumigatus*	204305™		✓			
	R4601250	*Bacteroides fragilis*	25285™	β-lactamase positive.			✓	
	R4601260	*Bacteroides thetaiotaomicron*	29741™	β-lactamase positive.			✓	
	R4609498	*Campylobacter jejuni*	33560™		✓		✓	
	R4601496	*Candida albicans*	90028™				✓	
	R4601518	*Candida parapsilosis*	22019™		✓		✓	
	R4609452	*Clostridium difficile*	700057™	β-lactamase negative.			✓	
	R4601951	*Eggerthella lenta*	43055™				✓	
	R4607030	*Enterococcus faecalis*	29212™		✓		✓	✓
	R4601996	*Enterococcus faecalis*	51299™	Glycopeptide/low-level vancomycin resistance; *vanB* positive. High-level aminoglycoside resistance; gentamicin and streptomycin resistant.		✓		✓
NEW	R4601301	*Enterococcus faecalis*	33186™	Suitability of Mueller-Hinton media testing.				✓
NEW	R4601307	*Escherichia coli*	NCTC 13353	ESBL producer; CTX-M-15, Cephalosporin resistant.			✓	
NEW	R4601314	*Escherichia coli*	NCTC 13846	Colistin resistant; *mcr-1* positive.	✓			
	R4607050	*Escherichia coli*	25922™	β-lactamase negative.	✓		✓	
	R4601971	*Escherichia coli*	35218™	β-lactamase producing strain; TEM-1. Non-ESBL.	✓		✓	
	R4603810	*Haemophilus influenzae*	10211™					✓
	R4603830	*Haemophilus influenzae*	49247™	BLNAR (β-lactamase negative,ampicillin resistant); Reduced susceptibility to β-lactam agents due to PBP mutations.		✓	✓	
	R4603806	*Haemophilus influenzae*	49766™	Ampicillin susceptible.	✓		✓	
	R4601520	*Issatchenkia orientalis*	6258™		✓		✓	
	R4603074	*Klebsiella pneumoniae*	700603™	ESBL producer; SHV-18. Carbapenemase producer; OXA-2. Mutations in OmpK35 and OmpK37 outer membrane porins.	✓	✓	✓	
	R4609384	*Klebsiella pneumoniae*	BAA-1705™	Carbapenemase producer; KPC-2. β-lactamase producer; SHV, TEM.			✓	
	R4609385	*Klebsiella pneumoniae*	BAA-1706™	Carbapenemase negative.				✓
NEW	R4601316	*Klebsiella pneumoniae*	BAA-2814™	Carbapenemase producer; KPC-3. β-lactamase producer; SHV-11, TEM-1.	✓		✓	
	R4609006	*Neisseria gonorrhoeae*	49226™	CMRNG (Chromosome-mediated resistant Neisseria gonorrhoeae): Low level chromosome mediated resistant to penicillin.			✓	
	R4607060	*Pseudomonas aeruginosa*	27853™	Inducible AmpC β-lactamase.	✓		✓	
	R4609389	*Staphylococcus aureus*	BAA-1708™	High-level mupirocin resistance; *mupA* positive.				✓
	R4607010	*Staphylococcus aureus*	25923™	β-lactamase negative, *mecA* negative, *mupA* negative.			✓	✓
	R4607011	*Staphylococcus aureus*	29213™	Weak β-lactamase-producing strain, *mecA* negative, *mupA* negative.	✓		✓	✓
	R4609022	*Staphylococcus aureus*	43300™	Methicillin and Oxacillin resistant MRSA; *mecA* positive.			✓	
	R4606512	*Staphylococcus aureus*	BAA-976™	Macrolide resistant; *msrA* positive. Inducible clindamycin resistance negative control.			✓	✓
	R4606513	*Staphylococcus aureus*	BAA-977™	Inducible *ermA*-mediated macrolide resistance. Inducible clindamycin resistance positive control.				✓
NEW	R4601313	*Staphylococcus aureus*	NCTC 12493	Methicillin resistant MRSA; *mecA* positive.		✓		
	R4609015	*Streptococcus pneumoniae*	49619™	Reduced susceptibility to benzylpenicillin.	✓		✓	

The European Committee on Antimicrobial Susceptibility Testing. Routine and extended internal quality control for MIC determination and disk diffusion as recommended by EUCAST. Version 8.0, 2018. www.eucast.org. Clinical and Laboratory Standards Institute (CLSI). *Performance Standards for Antimicrobial Susceptibility Testing.* 27th ed. CLSI supplement M100. Clinical and Laboratory Standards Institute, 950 West Valley Road, Suit 2500, Wayne, Pennsylvania 19087 USA, 2017

More antimicrobials, more testing options

Our formulary capabilities extends beyond our standard formats. For custom antimicrobics, plate formats and dilution ranges, please contact for further information.

Thermo Scientific Sensititre Standard Formularies

		Gram negative First line	Gram negative Second line				Gram positive	Fastidious		Anaerobes	Campylobacter	Yeast		Mycobacteria			
Code	Antimicrobic	GN7F	MDRGN4F	MDRGNX4F*	GNX3F*	GNX2F*	GPALL3F	STP8F	HPB2	AN02B*	CAMPY2*	Y04VD	Y011*	MYCOTB*	NOCARDA*	SLOMYC02*	RAPMYC02*
FC	5-Flucytosine											✓	✓				
AMI	Amikacin	✓	✓	✓	✓									✓	✓	✓	✓
AMOX	Amoxicillin																
AUGC	Amoxicillin / Clavulanic acid																
AUG2	Amoxicillin / Clavulanic acid 2:1							✓	✓	✓					✓		
AB	Amphotericin B												✓				
AMP	Ampicillin	✓					✓		✓	✓							
A/S2	Ampicillin / Sulbactam	✓			✓				✓	✓							
AND	Anidulafungin												✓				
AZI	Azithromycin							✓			✓						
AZT	Aztreonam	✓			✓												
CAR	Carbenicillin																
CAS	Caspofungin											✓	✓				
FAC	Cefaclor								✓								
FAZ	Cefazolin	✓															
FEP	Cefepime	✓			✓			✓	✓								
FDC	Cefiderocol		✓	✓													
FIX	Cefixime								✓								
FOP	Cefoperazone																
FOT	Cefotaxime				✓			✓									
F/C	Cefotaxime / Clavulanic acid																
TANS	Cefotetan Na									✓							
FOX	Cefoxitin									✓							✓
FOXS	Cefoxitin Screen						✓										
POD	Cefpodoxime																
CPT	Ceftaroline						✓										
TAZ	Ceftazidime	✓			✓												
CZA	Ceftazidime / Avibactam	✓	✓	✓		✓											
T/C	Ceftazidime / Clavulanic acid																
BPR	Ceftobiprole																
C/T	Ceftolozane / Tazobactam	✓	✓	✓		✓											
AXO	Ceftriaxone	✓					✓	✓	✓						✓		
FUR	Cefuroxime							✓	✓								
CEP	Cephalothin																
CHL	Chloramphenicol						✓	✓	✓	✓							
CIP	Ciprofloxacin	✓			✓		✓				✓				✓	✓	✓
CLA	Clarithromycin								✓						✓	✓	✓
CLI	Clindamycin						✓	✓		✓	✓						
CFZ	Clofazimine															✓	✓
COL	Colistin*			✓	✓	✓											
CYC	Cycloserine													✓			
DAL	Dalbavancin																

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Thermo Scientific Sensititre Standard Formularies

		Gram negative First line	Gram negative Second line				Gram positive	Fastidious		Anaerobes	Campylobacter	Yeast		Mycobacteria			
Code	Antimicrobic	GN7F	MDRGN4F	MDRGNX4F*	GNX3F*	GNX2F*	GPALL3F	STP8F	HPB2	ANO2B*	CAMPY2*	YO4IVD	YO11*	MYCOTB*	NOCARDIA*	SLOMYCO2*	RAPMYCO2*
DAP	Daptomycin						✓	✓									
DLX	Delafloxacin		✓	✓													
DOR	Doripenem	✓			✓												
DOX	Doxycycline				✓										✓	✓	✓
DT1,2	D-Test						✓										
ERV	Eravacycline		✓	✓													
ERY	Erythromycin						✓	✓	✓		✓						
ETP	Ertapenem	✓						✓									
EMB	Ethambutol													✓			
ETH	Ethionamide													✓			
FLO	Florfenicol										✓						
FZ	Fluconazole											✓	✓				
FOS+	Fosfomycin			✓													
GEN	Gentamicin	✓			✓		✓				✓						
IMI	Imipenem	✓	✓	✓	✓				✓	✓					✓		✓
IMR	Imipenem / Relebactam		✓	✓													
INH	Isoniazid													✓			
IZ	Itraconazole											✓	✓				
KAN	Kanamycin													✓			
LEVO	Levofloxacin	✓	✓	✓	✓		✓	✓	✓								
LZD	Linezolid						✓	✓							✓	✓	✓
LOM	Lomefloxacin																
MERO	Meropenem	✓	✓	✓	✓	✓		✓	✓	✓							
MEV	Meropenem / Vaborbactam		✓	✓													
MRD	Metronidazole									✓							
MEZ	Mezlocillin									✓							
MF	Micafungin												✓				
MIN	Minocycline	✓			✓										✓	✓	
MXF	Moxifloxacin						✓	✓						✓	✓	✓	✓
NAL	Nalidixic acid										✓						
NIT	Nitrofurantoin	✓					✓										
OFL	Ofloxacin													✓			
OMC	Omadacycline		✓	✓													
OXA+	Oxacillin + 2% NaCl						✓										
PAS	Para-aminosalicylic acid													✓			
PEN	Penicillin						✓	✓	✓	✓							
PIP	Piperacillin									✓							
P/T4	Piperacillin / Tazobactam	✓			✓	✓				✓							
PLZ	Plazomicin		✓	✓													
POL	Polymixin B*				✓												
PZ	Posaconazole												✓				
RFB	Rifabutin													✓		✓	
RIF	Rifampin						✓							✓		✓	
RZF	Rezafungin											✓	✓				
SPA	Sparfloxacin								✓								
STR	Streptomycin						✓							✓		✓	
SUD	Sulbactam / Durlobactam constant 4		✓	✓													
TLC	Telavancin w/ Tween mimic						✓										
TRM	Temocillin																
TET	Tetracycline	✓					✓	✓	✓	✓	✓						
TIC	Ticarcillin																

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Thermo Scientific Sensititre Standard Formularies

Code	Antimicrobic	Gram negative First line	Gram negative Second line				Gram positive	Fastidious		Anaerobes	Campylobacter	Yeast		Mycobacteria			
		GN7F	MDRGN4F	MDRGNX4F*	GNX3F*	GNX2F*	GPALL3F	STP8F	HPB2	AN02B*	CAMPY2*	Y04IVD	Y011*	MYCOTB*	NOCARDIA*	SLOMYCO2*	RAPMYCO2*
TIM2	Ticarcillin / Clavulanic acid				✓												
TGC	Tigecycline	✓			✓		✓	✓									✓
TOB	Tobramycin	✓			✓										✓		✓
TMP	Trimethoprim																
SXT	Trimethoprim / Sulfamethoxazole	✓			✓		✓	✓	✓						✓	✓	✓
VAN	Vancomycin						✓	✓									
VOR	Voriconazole											✓	✓				

Thermo Scientific Sensititre Standard Formularies – Veterinary

Code	Antimicrobic	Companion		Bovine/ porcine		Avian	Equine	Urine (all)	Bovine (masti-tis)	Topical (all)
		Gram negative	Gram positive	Gram negative/positive						
		COMPGN1F	COMPGP1F	BOP07F	BOP06F	AVIAN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
AMI	Amikacin	✓	✓				✓			✓
AMOX	Amoxicillin					✓				
AUG2	Amoxicillin / Clavulanic acid 2:1	✓	✓					✓		
AMP	Ampicillin	✓	✓	✓	✓		✓	✓	✓	
BAC	Bacitracin									✓
FAZ	Cefazolin	✓	✓				✓			✓
FEP	Cefepime							✓		✓
FOT	Cefotaxime							✓		
FOV	Cefovecin	✓	✓							
POD	Cefpodoxime	✓	✓							
TAZ	Ceftazidime	✓					✓			
XNL	Ceftiofur			✓	✓	✓	✓	✓	✓	✓
LEX	Cephalexin	✓						✓		
CEP	Cephalothin		✓						✓	
CHL	Chloram-phenicol	✓	✓				✓			✓
CTET	Chlortetracy-cline				✓					
CIP	Ciprofloxacin									✓
CLA	Clarithromycin						✓			
CLI	Clindamycin		✓	✓	✓	✓				
DANO	Danofloxacin			✓	✓					
DOX	Doxycycline	✓	✓				✓			✓
ENRO	Enrofloxacin	✓	✓	✓	✓	✓	✓	✓		
ERY	Erythromycin					✓			✓	
FFN	Florfenicol			✓	✓	✓				
GEN	Gentamicin	✓	✓	✓	✓	✓	✓			✓
IMI	Imipenem	✓	✓				✓			
MAR	Marbofloxacin	✓	✓							
MIN	Minocycline		✓				✓			

Code	Antimicrobic	Companion		Bovine/ porcine		Avian	Equine	Urine (all)	Bovine (masti-tis)	Topical (all)
		Gram negative	Gram positive	Gram negative/positive						
		COMPGN1F	COMPGP1F	BOP07F	BOP06F	AVIAN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
MXF	Moxifloxacin									✓
NEO	Neomycin			✓	✓	✓				✓
NIT	Nitrofurantoin		✓							
NOV	Novobiocin					✓				
OFL	Ofloxacin									✓
ORB	Orbifloxacin	✓								
OXA+	Oxacillin + 2% NaCl		✓				✓		✓	
OXY	Oxytetracycline				✓	✓				✓
PEN	Penicillin		✓	✓	✓	✓	✓		✓	
P/N	Penicillin/ Novobiocin								✓	
P/T4	Piperacillin / Tazobactam	✓								
PIRL	Pirlimycin								✓	
POL	Polymixin B*									✓
PRA	Pradofloxacin	✓	✓							
RIF	Rifampin		✓				✓			
SPE	Spectinomycin			✓	✓	✓				
STR	Streptomycin					✓				
SDM	Sulphadime-thoxine			✓	✓	✓			✓	
STZ	Sulphathiazole					✓				
TET	Tetracycline	✓	✓	✓		✓	✓	✓	✓	
TIA	Tiamulin			✓	✓					
TIC	Ticarcillin									✓
TIP	Tildipirosin			✓						
TIL	Tilmicosin			✓	✓					
TOB	Tobramycin									✓
SXT	Trimethoprim / Sulfamethox-azole	✓	✓	✓	✓	✓	✓	✓		✓
TUL	Tulathromycin			✓	✓					
TYLT	Tylosin tartrate			✓	✓	✓				
VAN	Vancomycin		✓							

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Thermo Scientific Sensititre Standard Formularies – Surveillance

Code	Antimicrobic	NARMS					
		Gram negative			Gram positive		Campy-lobacter
		CMV5AGNF	CMV3AGNF	CMV4AGNF	CMV3AGPF	CMV4AGP	CMVCAMPY
AUG2	Amoxicillin/ Clavulanic acid 2:1	✓	✓	✓			
AMP	Ampicillin	✓	✓	✓		✓	
AVL	Avilamycin					✓	
AZI	Azithromycin	✓	✓	✓			✓
FOX	Cefoxitin	✓	✓	✓			
XNL	Ceftiofur		✓				
AXO	Ceftriaxone	✓	✓	✓			
CHL	Chloramphenicol	✓	✓	✓	✓	✓	
CIP	Ciprofloxacin	✓	✓	✓	✓	✓	✓
CLI	Clindamycin						✓
COL	Colistin	✓					
DAP	Daptomycin				✓	✓	
ETP	Ertapenem						
ERY	Erythromycin				✓	✓	✓
FFN	Florfenicol						✓
GEN	Gentamicin	✓	✓	✓	✓	✓	✓
KAN	Kanamycin				✓		
LZD	Linezolid				✓	✓	
LIN	Lincomycin				✓		
MERO	Meropenem	✓		✓			✓
NAL	Nalidixic acid	✓	✓	✓			✓
NIT	Nitrofurantoin				✓	✓	
PEN	Penicillin				✓		
SYN	Quinupristin / Dalfopristin				✓	✓	
STR	Streptomycin		✓	✓	✓	✓	
FIS	Sulfisoxazole	✓	✓	✓			
TET	Tetracycline	✓	✓	✓	✓	✓	✓
TGC	Tigecycline				✓	✓	
SXT	Trimethoprim / Sulfamethoxazole	✓	✓	✓			
TYLT	Tylosin tartrate				✓		
VAN	Vancomycin				✓	✓	

Ordering information

Description	Quantity	Product No
Sensititre Instruments		
Nephelometer	Each	V3011**
Sensititre AIM Instrument	Each	V3020**
ARIS HiQ Instrument	Each	V4000**
Vizion Instrument	Each	V2021**
OptiRead Instrument	Each	V3030**
SWIN Software System	Each	SW4000
SWIN Software PC Replacement	Each	6100310SR
SWIN Software Epidemiology Module	Each	SW1203
Sensititre Complete System	Each	V4000-VZ
Laser Printer	Each	615032, SW4000PRN
LED-LCD Multi TOUCH Monitor	Each	SW1305
Manual Viewbox	Each	V4007
Electronic Multichannel Pipette	Each	V4009
Sensititre Broths		
Demineralized Water	5 mL/box of 10	T3339-10**
	5 mL/box of 100	T3339**
Demineralized Water with Glass Beads	5 mL/box of 10	T3492*
HTM Broth	11 mL/box of 10	T3470**
Middlebrook 7H9 with OADC	11 mL/box of 10	T3441**
	11 mL/box of 10	T3440*
Mueller-Hinton Broth with Lysed Horseblood	11 mL/box of 10	CP11410**
	11 mL/box of 10	CP112-10**
Mueller-Hinton Broth with OADC	11 mL/box of 10	T8006**
	11 mL/box of 10	T8005*
Mueller-Hinton Broth with TES	5 mL/box of 10	T34620510**
	5 mL/box of 100	T3462-05**
	11 mL/box of 10	T3462-10**
	11 mL/box of 100	T3462**
Saline Tween with Glass Beads	5 mL/box of 10	T3491**
	5 mL/box of 10	T3490*
Supplemented Brucella Broth	11 mL/box of 10	T3450**
	11 mL/box of 10	T3451*
Veterinary Fastidious Medium	11 mL/box of 10	T3460
Veterinary Fastidious MHF Medium (MHF-Y)	11 mL/box of 10	T3461
YeastOne Broth	11 mL/box of 10	Y3462**
Sensititre Accessories		
0.5 McFarland Standard	Each	E1041
Adhesive seals for anaerobic plates - perforated	10/pack	G522EA
Adhesive seals for AST plates	10/pack	G520NA
Doseheads	100/box	E3010
Pipetting Reservoirs	200/box	E1032

*Research use only. ** IVD/CE labelled.
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Find our more at **thermofisher.com/sensititre**

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