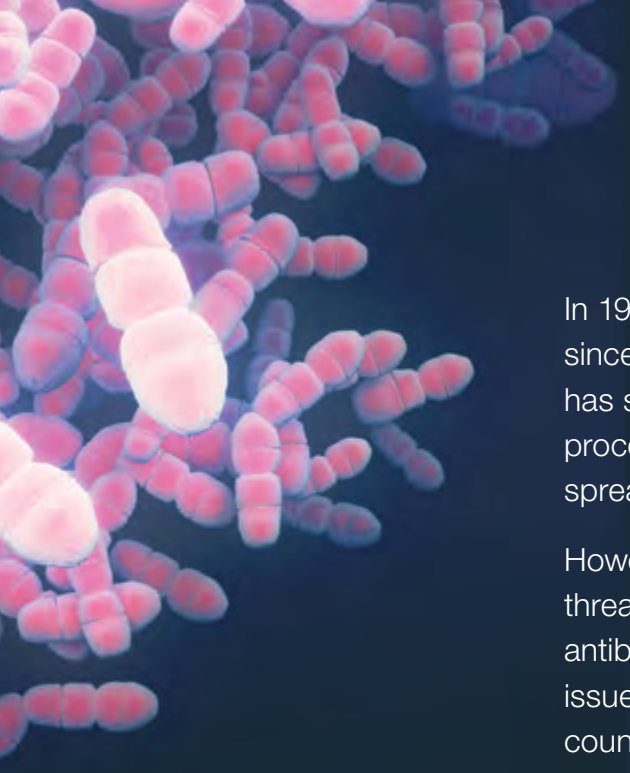
thermo scientific

Thermo Scientific Sensititre System

for Antimicrobial Susceptibility Testing (AST)

ThermoFisher SCIENTIFIC



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 is a global health emergency that will seriously jeopardize progress in modern medicine."[1]

Dr. Tedros Adhanom Ghebreyesus
Director-General, WHO

[1]World Health Organization. (2017, September 20). The world is running out of antibiotics, WHO report confirms [Press Release]. Retrieved from: http://www.who.int/mediacentre/news/releases/2017/running-out-antibiotics/en/

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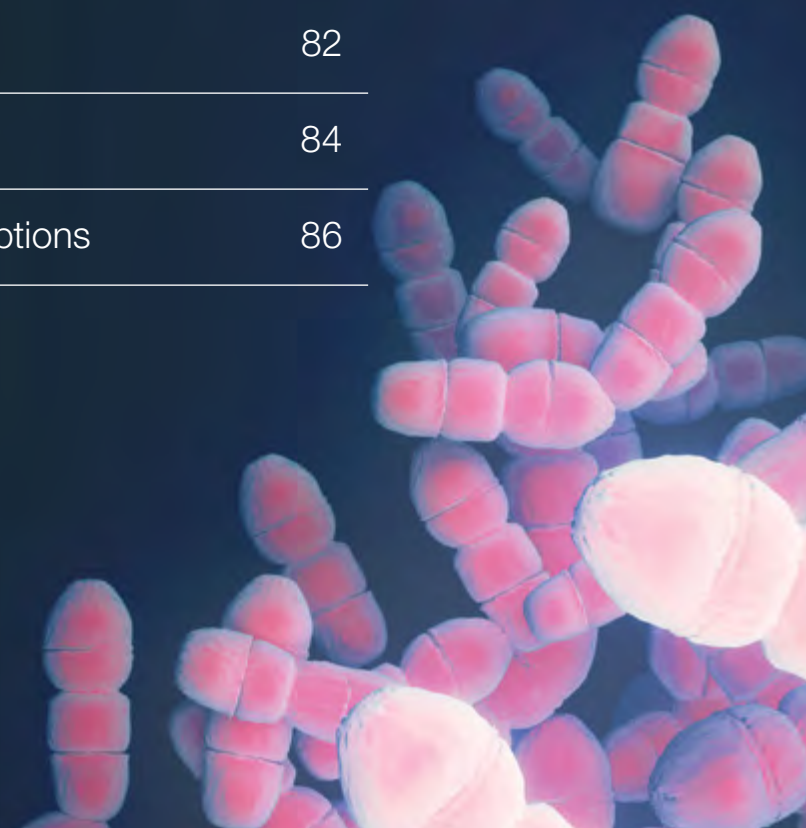

Thermo Scientific Sensititre System

Confidently identify bacterial pathogens and detect emerging antibiotic resistance with the Gold Standard MIC 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. 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 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.

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

1. Select plate → 2. Inoculum → 3. Inoculate → 4. Incubate → 5. Read → 6. Interpret

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.

Antimicrobial Susceptibility Testing (AST) workflow with your Sensititre

1. Select Plate
2. Inoculum
3. Inoculate
4. Incubate
5. Read
6. Interpret

Sensititre Standard AST Plates–to suit your application, including
- Gram positive
- Gram negative
- Fastidious
- Mycobacteria
- Yeast

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Sensititre Custom AST Plates–design your own plate
- Select from over 300 antimicrobials
- Widest, most up-to-date antimicrobial selection
- Wide dilution range

▶ See page 7

Thermo Scientific™ Sensititre™ Nephelometer–simple solution for
- Simple inoculum density measurement
- Based on turbidity reading

▶ See page 8

Thermo Scientific™ Finnpipette™
- Exceptional ergonomics
- Comprehensive model selection of single-, 8-, 12-, and 16-channel models
- Broad portfolio of standard and specialized tips
- Five-year warranty

▶ See page 8

Thermo Scientific™ Sensititre™ 8-Channel Programmable Pipette
- Quick and accurate
- Manual inoculation
- Enhanced ergonomics

Thermo Scientific™ Sensititre AIM™ Automated Inoculation Delivery System
- Automated inoculation
- No more skipped wells
- No more costly repeat tests

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Thermo Scientific™ Sensititre ARIS HiQ System
- Automated incubation and reading
- 100 MIC, breakpoint or ID plates
- Ensures optimal growth conditions
- Eliminates repeat tests

▶ See page 6

Thermo Scientific™ Heratherm™ Microbial Incubator–provides long-term performance with optimal conditions

Thermo Scientific™ Sensititre™ OptiRead™ Automated Fluorometric Plate Reading System
- Fluorescence detection to automate plate reading
- Directly linked to Sensititre SWIN Software System for automated interpretation and reporting

▶ See page 10

Thermo Scientific™ Sensititre™ Vizion™ Digital MIC Viewing System
- Captures and stores easy-to read digital plate images
- Optimizes manual reading
- Connects to Sensititre SWIN Software System for automated interpretation and reporting

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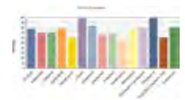
Thermo Scientific™ Sensititre™ Manual Viewbox
- Mirrored viewbox for manual viewing

Thermo Scientific™ Sensititre™ SWIN™ Software System, Complete
- Automated interpretation and reporting
- Consolidate results from manual to automated reading options on a single software platform
- Fully ALS interfaced

▶ See page 11



Sensititre SWIN Epidemiology Module
- Provides comprehensive reporting of AST results
- Helps detect, monitor, and investigate local antibiotic resistance patterns
- Fully ALS interfaced

▶ See page 11

1. Select Plate

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.

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.

Greater flexibility	• Over 300 antimicrobials • Frozen or dried formats
Performance	• Superior reproducibility for accurate results, first time • Consolidate testing onto one format to reduce unnecessary testing protocols, offline testing and associated costs
Custom design	• Easily adapt formulary requirements and prescription protocols to monitor local resistance
Scalable	• Streamline your workflow • Design based on workload and budget

1. Select Plate

Four simple steps to designing your custom plate

Our team of microbiology experts will guide you through the Sensititre custom plate process from design to delivery.

Design

Tailor your formulary requirements to your local patient and/or animal populations:

1) Antimicrobials

2) Dilution ranges

Available as ROU or IVD formats

Approval

Custom plate designs are rigorously reviewed and approved based on quality and regulatory standards ensuring your plate meets your exact specifications and industry standard guidelines

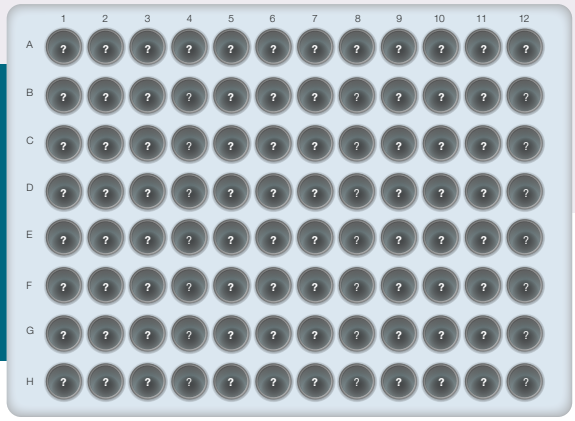
Order

Following approval and receipt of a purchase order, your Sensititre custom plates will be scheduled for manufacture and lead time will be shared

Delivery

Custom plates are delivered

Choose any combination from over 300 antimicrobials



2. Inoculate

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.

- Cost-effectively standardize inoculum density
- Reliable Minimum Inhibitory Concentration (MIC)

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

Sensititre ARIS HiQ System

Achieve comprehensive, accurate MIC results to guide targeted patient therapy with the Sensititre ARIS HiQ System, a benchtop automated reading and incubation system for AST and identification of bacterial pathogens.

The Sensititre ARIS HiQ system helps microbiology laboratories deliver accurate antimicrobial susceptibility testing of the most commonly prescribed antibiotics, as well as novel, last-resort therapies, to provide meaningful results for clinicians, stewardship teams, and public health departments.

ARIS™ HiQ benchtop reading and incubation system can accommodate up to 100 MIC, breakpoint or identification plates on a single instrument.

Automated incubation and reading

- 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

4. Read

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

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
- Displays easy-to-read digital images to enhance manual plate reading

5. Interpret

Sensititre SWIN Software System

Consolidate your entire test program on a single software platform while enhancing data entry and reporting with The Sensititre Windows® (SWIN) Software System.

The Sensititre SWIN software reads Sensititre (18-24 hr) susceptibility plates, generating a qualitative result of minimum inhibitory concentrations (MIC) and interpreting breakpoint (BP) results for non-fastidious and fastidious microorganisms.

- Combines manual, semiautomated and fully automated read options on a single software platform
- View ID details and susceptibility results
- Drop-down fields eliminate manual entry errors for all manual, semi-automated and fully automated reads
- Customizable Expert System provides three-tiered expert messages: Information, Modification (based on FDA, CLSI and EUCAST recommendations) and Warning Levels
- Quality control module easily manages MIC results and broth information for inspection purposes

Sensititre SWIN Epidemiology platform

The SWIN Epidemiology platform allows you to quickly generate monthly and annual susceptibility reports in minutes. The SWIN Epidemiology Module is the ultimate tool for comprehensive reporting specific to their patient populations.

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

"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

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 EUCAST 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.

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

It is critical for patient treatment to identify new antimicrobials and incorporate them into a reliable testing device to perform the most effective 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*.

Thermo Fisher Scientific is dedicated in its collaboration and partnerships with pharmaceutical companies that are developing new antimicrobials. We are continuously extending and expediting our gold standard-equivalent[1] Sensititre plate portfolio. The Sensititre is the only platform that gives you early access to broth microdilution (BMD) MIC test, Sensititre.

The latest antimicrobials include:

- Cefiderocol
- Imipenem/relebactam
- Meropenem/vaborbactam

"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.
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.

1 Scan panel barcode into SWIN Software

2 Enter specimen/ isolate information or load specimen details from your LIS

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

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

Clinical standard plate formats

	INSTRUMENTS	USE AND METHODOLOGY	GRAM NEGATIVE First line						GRAM NEGATIVE Second line							NON-FERMENTERS	URINES	ESBLS	GRAM POSITIVE						FASTIDIOUS		ANAEROBES		YEAST					MYCOBACTERIA					
			GN2F	GN3F	GN4F	GN6F	GN7F	EUGNF	MDRGNX2F	GNX2F	GNX3F	GNX4F	EUMDRXXF	DKMGN	EURGNCOL	NF	GNUR3F	ESB1F	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	GPN3F	EUENCF	STP6F	HPB1	AN02B	ANAER03	YO2IVD	YO3IVD	YO8	YO10	AUSNMRC1	MYCOTBI	RAPMYCO2	RAPMYCOI	SLOMYCO2	SLOMYCOI	NOCARDIA
FLUORESCENT PLATES	AUTOREAD (ARIS HiQ, OptiRead, manual viewer, Vizion)	IVD / EUCAST						●					●										●		●													
		IVD / CLSI	●	●	●	●	●									●	●	●	●	●	●	●		●		●													
		RUO / CLSI							●	●	●	●																												
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Manual viewer, Vizion)	IVD / EUCAST												●	●																								
		IVD / CLSI																									●		●	●	●		●	●	●		●		●
		RUO / CLSI																										●				●				●		●	
Jump to page ▶			18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	44	45	46	47	48	49	50	51	52	53	54

Sensititre clinical / Human plates

The Sensititre System (ID/AST) generates true MIC results based on actual growth of the organism (no extrapolation growth curves). A true MIC reveals the difference between whether a bacterial isolate is susceptible, 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 EUCAST and CLSI, you can trust the value of a true MIC delivered by the Sensititre System to gain the accuracy required for optimal patient outcomes, and to track emerging resistance.

Sensititre System ID/AST also allows you to eliminate offline testing while meeting CLSI. FDA, or EUCAST requirements.

With over 300 antimicrobials in extended dilution ranges, the Sensititre System offers earlier access to the most up-to-date antimicrobials in a complete solution with true MIC results, expanding patient treatment options and improving patient outcomes when time is critical.

The Sensititre System for antimicrobial susceptibility testing (AST) can also help clinicians and public health officials determine pathogen antimicrobial susceptibility patterns while supporting global and regional antimicrobial stewardship.

> "Antimicrobial resistance is a global health emergency that will seriously jeopardize progress in modern medicine."[1]
>
> – Dr. Tedros Adhanom Ghebreyesus
> Director-General, WHO

Expand treatment options using our broad range of species-specific antimicrobials in standard and customisable formats.

Gram Negative	Gram Positive
Fastidious	Yeast
Mycobacteria	Single drug

1 https://assets.thermofisher.com/TFS-Assets/MBD/brochures/Sensititre-Plate-Guide-Booklet-EN.pdf page 3

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 **cefiderocol**, **eravacycline**, **imipenem/relebactam** and **meropenem/vaborbactam**.

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

Expand your Gram positive organism susceptibility testing options by accessing the latest antibiotics including conventional antibiotics **ceftaroline, telavancin, tobramycin, sulfamethoxazole**.

"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. 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 Negative MIC Plate GN2F

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™
4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC® 700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMI 64	A/S2 32/16	FAZ 16	TANS 16	AXO 1	FUR 16	GAT 4	GEN 8	NIT 64	PIP 64	TIM2 64/2	TOB 8
B	AMI 32	A/S2 16/8	FAZ 8	TANS 8	TAZ 32	FUR 8	GAT 2	GEN 4	NIT 32	PIP 32	TIM2 32/2	TOB 4
C	AMI 16	A/S2 8/4	FAZ 4	AXO 64	TAZ 16	FUR 4	GAT 1	GEN 2	NIT 16	PIP 16	TIM2 16/2	POD 16
D	AMI 8	A/S2 4/2	FEP 32	AXO 32	TAZ 8	CIP 4	MERO 8	IMI 16	FOX 32	P/T4 128/4	SXT 4/76	POD 8
E	AMP 32	AZT 32	FEP 16	AXO 16	TAZ 4	CIP 2	MERO 4	IMI 8	FOX 16	P/T4 64/4	SXT 2/38	POD 4
F	AMP 16	AZT 16	FEP 8	AXO 8	TAZ 2	CIP 1	MERO 2	IMI 4	FOX 8	P/T4 32/4	SXT 1/19	POD 2
G	AMP 8	AZT 8	FEP 4	AXO 4	TAZ 1	CIP 0.5	MERO 1	IMI 2	FOX 4	P/T4 16/4	SXT 0.5/9.5	NEG
H	AMP 4	FAZ 32	TANS 32	AXO 2	FUR 32	GAT 8	GEN 16	NIT 128	PIP 128	POS	POS	POS

Antimicrobics

AMI	Amikacin
A/S2	Ampicillin / Sulbactam 2:1 ratio
AMP	Ampicillin
AXO	Ceftriaxone
AZT	Aztreonam
CIP	Ciprofloxacin
FAZ	Cefazolin
FEP	Cefepime
FOX	Cefoxitin
FUR	Cefuroxime
GAT	Gatifloxacin
GEN	Gentamicin
IMI	Imipenem
MERO	Meropenem
NEG	Negative Control
NIT	Nitrofurantoin
P/T4	Piperacillin / Tazobactam constant 4
PIP	Piperacillin
POD	Cefpodoxime
POS	Positive Control
SXT	Trimethoprim / Sulfamethoxazole
TANS	Cefotetan
TAZ	Ceftazidime
TIM2	Ticarcillin / Clavulanic acid constant 2
TOB	Tobramycin

*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 MIC Plate GN3F

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™
Additional QC strains used in product release testing	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMI 64	A/S2 32/16	FAZ 32	CEP 16	ETP 16	GEN 16	P/T4 128/4	SXT 4/76	TAZ 32	TGC 8	AXO 64	TET 16
B	AMI 32	A/S2 16/8	FAZ 16	CEP 8	ETP 8	GEN 8	P/T4 64/4	SXT 2/38	TAZ 16	TGC 4	AXO 32	TET 8
C	AMI 16	A/S2 8/4	FAZ 8	CEP 4	ETP 4	GEN 4	P/T4 32/4	SXT 1/19	TAZ 8	TGC 2	AXO 16	TET 4
D	AMI 8	A/S2 4/2	FAZ 4	CEP 2	ETP 2	GEN 2	P/T4 16/4	SXT 0.5/9.5	TAZ 4	TGC 1	AXO 8	TET 2
E	AMP 32	AZT 32	FEP 32	MERO 8	FUR 32	CIP 4	FOX 32	POD 16	TAZ 2	TIM2 64/2	AXO 4	TET 1
F	AMP 16	AZT 16	FEP 16	MERO 4	FUR 16	CIP 2	FOX 16	POD 8	TAZ 1	TIM2 32/2	AXO 2	TET 0.5
G	AMP 8	AZT 8	FEP 8	MERO 2	FUR 8	CIP 1	FOX 8	POD 4	TOB 8	TIM2 16/2	AXO 1	NEG
H	AMP 4	AZT 4	FEP 4	MERO 1	FUR 4	CIP 0.5	FOX 4	POD 2	TOB 4	POS	POS	POS

Antimicrobics

AMI	Amikacin
A/S2	Ampicillin / Sulbactam 2:1 ratio
AMP	Ampicillin
AXO	Ceftriaxone
AZT	Aztreonam
CEP	Cephalothin
CIP	Ciprofloxacin
ETP	Ertapenem
FAZ	Cefazolin
FEP	Cefepime
FOX	Cefoxitin
FUR	Cefuroxime
GEN	Gentamicin
MERO	Meropenem
NEG	Negative Control
P/T4	Piperacillin / Tazobactam constant 4
POD	Cefpodoxime
POS	Positive Control
SXT	Trimethoprim / Sulfamethoxazole
TAZ	Ceftazidime
TET	Tetracycline
TGC	Tigecycline
TIM2	Ticarcillin / Clavulanic acid constant 2
TOB	Tobramycin

*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 Plate GN4F

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

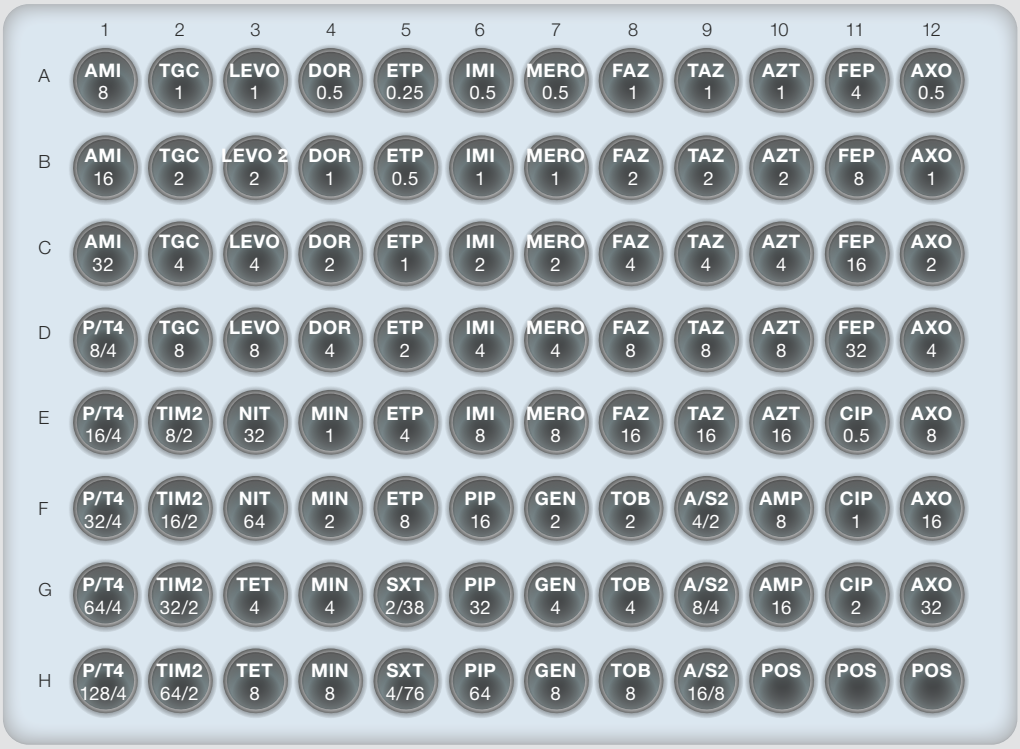
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
R4607030	*Enterococcus faecalis*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

Put 3-5 colonies into H20 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-CO2 incubator or Sensititre ARIS HiQ for 18-24 hours

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



Antimicrobics

AMI	Amikacin
AMP	Ampicillin
A/S2	Ampicillin / sulbactam 2:1 ratio AZT
FAZ	Cefazolin
FEP	Cefepime
TAZ	Ceftazidime
AXO	Ceftriaxone
CIP	Ciprofloxacin
DOR	Doripenem
ETP	Ertapenem
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
MIN	Minocycline
NIT	Nitrofurantoin
PIP	Piperacillin
P/T4	Piperacillin / tazobactam constant 4
POS	Positive Control
TET	Tetracycline
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.

Sensititre Gram Negative MIC Plate GN6F

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

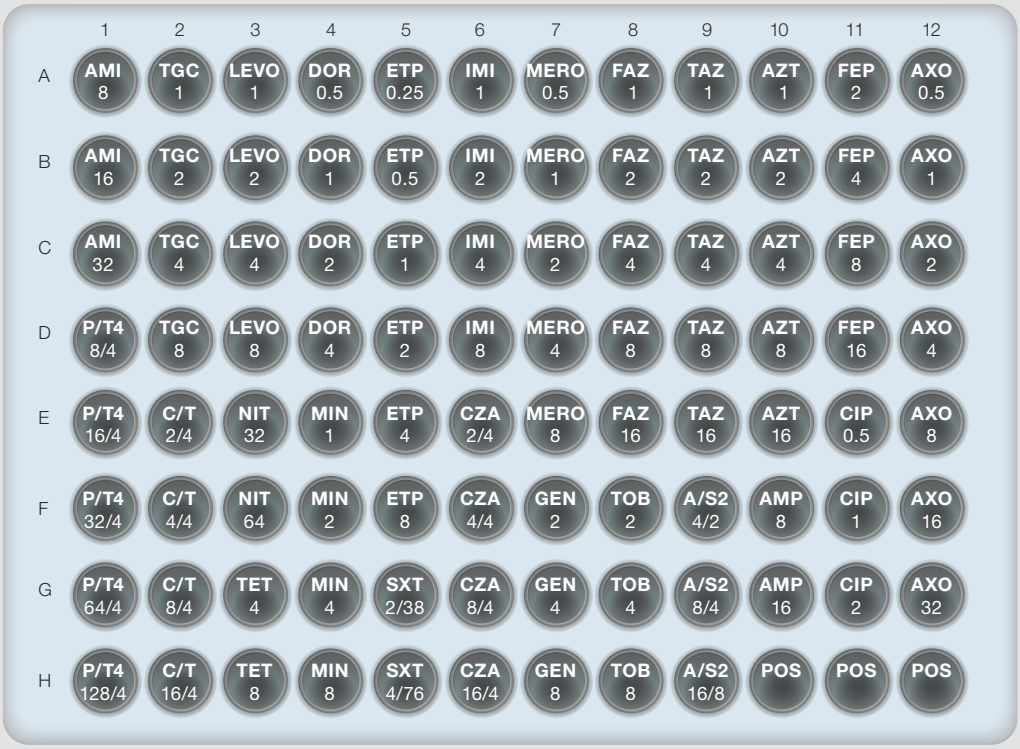
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
R4607030	*Enterococcus faecalis*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

Put 3-5 colonies into H20 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-CO2 incubator or Sensititre ARIS HiQ for 18-24 hours

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



Antimicrobics

AMI	Amikacin
AMP	Ampicillin
A/S2	Ampicillin / sulbactam 2:1 ratio AZT
FAZ	Cefazolin
TAZ	Ceftazidime
CZA	Ceftazidime/avibactam
C/T	Ceftolozane/tazobactam 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 FEP
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.

Sensititre Gram Negative MIC Plate GN7F

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

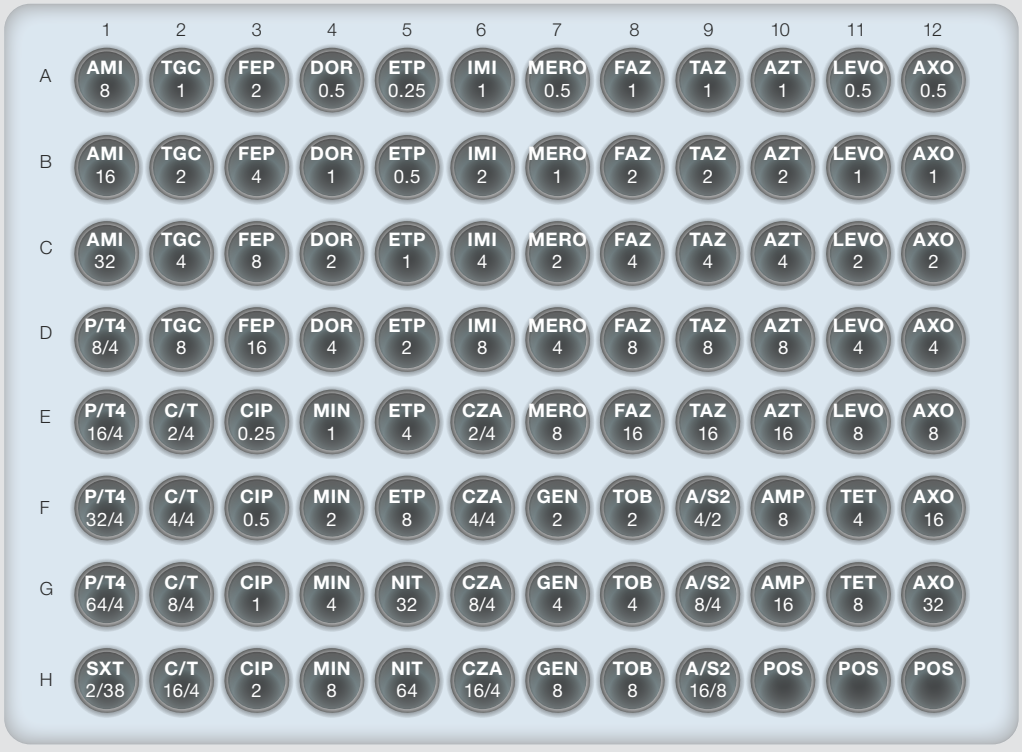
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Addditional QC strains used for product release	
R4607030	*Enterococcus faecalis*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

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

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

ATCC Licensed Derivative

Sensititre Non-fastidious Gram Negative MIC EUGNF

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)

EUCAST 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* 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, semi-automatically with Vizion or manually with Manual Viewbox"

	1	2	3	4	5	6	7	8	9	10	11	12
A	AUGC 2/2	AUGC 4/2	AUGC 8/2	AUGC 16/2	AUGC 32/2	P/T4 2/4	P/T4 4/4	P/T4 8/4	P/T4 16/4	P/T4 32/4	NIT 32	NIT 64
B	FOT 0.5	FOT 1	FOT 2	FOT 4	AMP 2	AMP 4	AMP 8	AMP 16	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1
C	FEP 0.5	FEP 1	FEP 2	FEP 4	FEP 8	LEVO 0.25	LEVO 0.5	LEVO 1	LEVO 2	FIX 0.5	FIX 1	FIX 2
D	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	TIC 4	TIC 8	TIC 16	TIC 32	LEX 8	LEX 16	LEX 32
E	MERO 0.12	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8	MERO 16	SXT 1/19	SXT 2/38	SXT 4/76	SXT 8/152
F	GEN 0.5	GEN 1	GEN 2	GEN 4	GEN 8	TAZ 0.5	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TGC 0.5	TGC 1
G	TOB 0.5	TOB 1	TOB 2	TOB 4	TOB 8	ETP 0.12	ETP 0.25	ETP 0.5	ETP 1	ETP 2	TGC 2	TGC 4
H	FOX 2	FOX 4	FOX 8	FOX 16	FUR 2	FUR 4	FUR 8	FUR 16	NAL 16	POS	POS	POS

Antimicrobics

AMI	Amikacin
AMP	Ampicillin
AUGC	Amoxicillin / Clavulanic acid constant 2
CIP	Ciprofloxacin
ETP	Ertapenem
FEP	Cefepime
FIX	Cefixime
FOT	Cefotaxime
FOX	Cefoxitin
FUR	Cefuroxime
GEN	Gentamicin
LEVO	Levofloxacin
LEX	Cephalexin
MERO	Meropenem
NAL	Nalidixic Acid
NIT	Nitrofurantoin
P/T4	Piperacillin / Tazobactam constant 4
POS	Positive Control
SXT	Trimethoprim / Sulfamethoxazole
TAZ	Ceftazidime
TGC	Tigecycline
TIC	Ticarcillin
TOB	Tobramycin

*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 Plate

including the latest antimicrobials Cefiderocol and Imipenem/Relebactam, in addition to Colistin and Fosfomycin

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

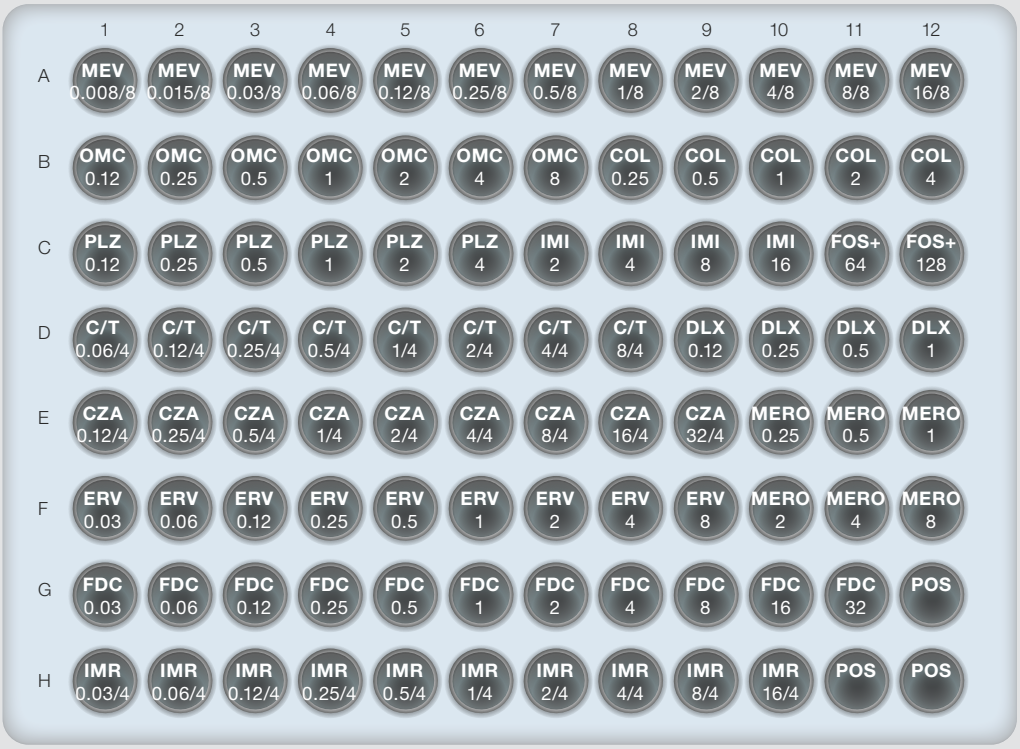
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4609384	*Klebsiella pneumoniae* ATCC® BAA-1705™
R4601316	*Klebsiella pneumoniae* ATCC® BAA-2814™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

FDC	Cefiderocol
CZA	Ceftazidime/Avibactam
C/T	Ceftolozane/Tazobactam 4
COL	Colistin
DLX	Delafloxacin
ERV	Eravacycline
FOS+	Fosfomycin+glucose-6-phosphate
IMI	Imipenem
IMR	Imipenem/Relebactam
MERO	Meropenem
MEV	Meropenem/Vaborbactam
OMC	Omadacycline
PLZ	Plazomicin
POS	Positive Control

*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 Plate with Colistin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative 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 (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

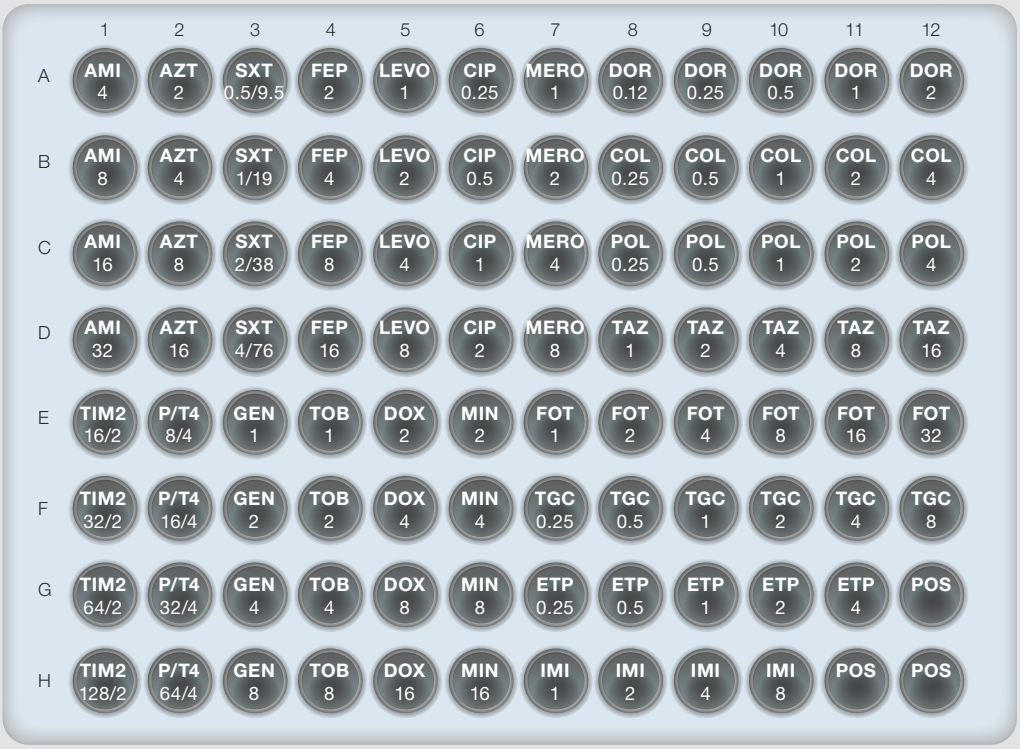
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

*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 Plate for Second-line testing including Colistin GNX3F

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMI 4	GEN 1	TOB 1	CIP 0.06	SXT 0.5/9.5	AZT 2	FEP 2	COL 0.25	COL 0.5	COL 1	COL 2	COL 4
B	AMI 8	GEN 2	TOB 2	CIP 0.12	SXT 1/19	AZT 4	FEP 4	POL 0.25	POL 0.5	POL 1	POL 2	POL 4
C	AMI 16	GEN 4	TOB 4	CIP 0.25	SXT 2/38	AZT 8	FEP 8	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TAZ 16
D	AMI 32	GEN 8	TOB 8	CIP 0.5	SXT 4/76	AZT 16	FEP 16	FOT 2	FOT 4	FOT 8	FOT 16	FOT 32
E	DOX 2	MIN 2	TGC 0.25	CIP 1	LEVO 1	IMI 1	MERO 1	A/S2 4/2	A/S2 8/4	A/S2 16/8	A/S2 32/16	A/S2 64/32
F	DOX 4	MIN 4	TGC 0.5	CIP 2	LEVO 2	IMI 2	MERO 2	DOR 0.5	DOR 1	DOR 2	DOR 4	POS
G	DOX 8	MIN 8	TGC 1	TGC 4	LEVO 4	IMI 4	MERO 4	P/T4 8/4	P/T4 16/4	P/T4 32/4	P/T4 64/4	POS
H	DOX 16	MIN 16	TGC 2	TGC 8	LEVO 8	IMI 8	MERO 8	TIM2 16/2	TIM2 32/2	TIM2 64/2	TIM2 128/2	POS

Antimicrobics

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

*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 Plate for Second-line testing including Colistin GNX4F

Intended use	Read method
A three isolate 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

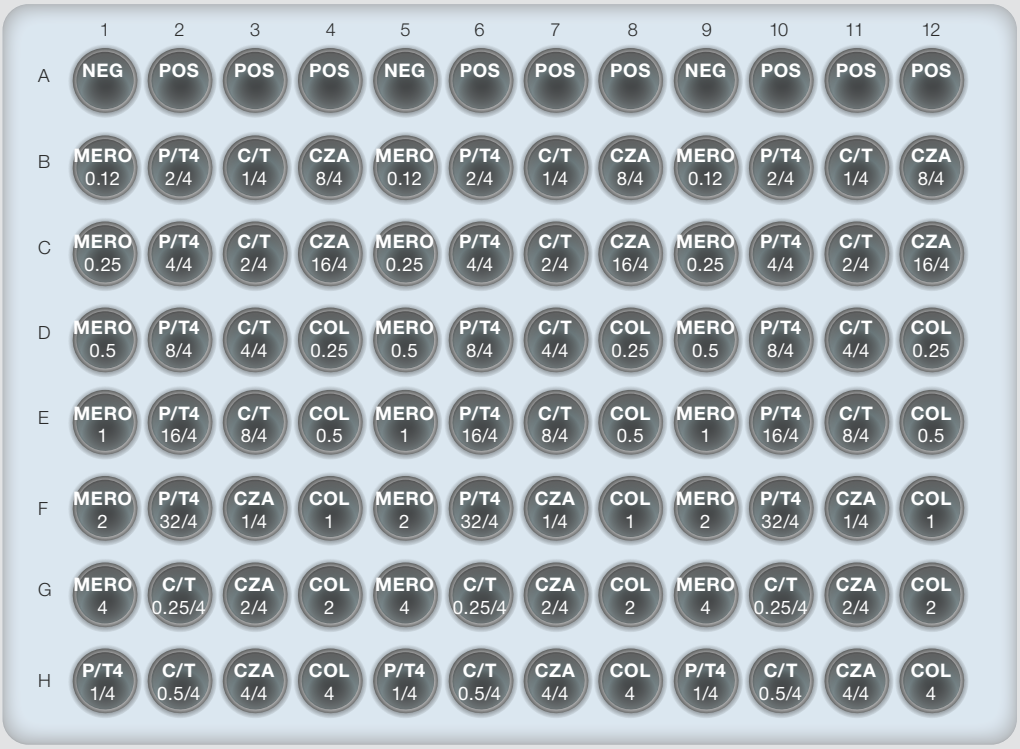
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC® 700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis*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

Put 3-5 colonies into H20 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

CZA	Ceftazidime/Avibactam
C/T	Ceftolozane/Tazobactam 4
COL	Colistin
MERO	Meropenem
NEG	Negative Control
P/T4	Piperacillin/Tazobactam constant 4
POS	Positive Control

*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 MDRO Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative 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 (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

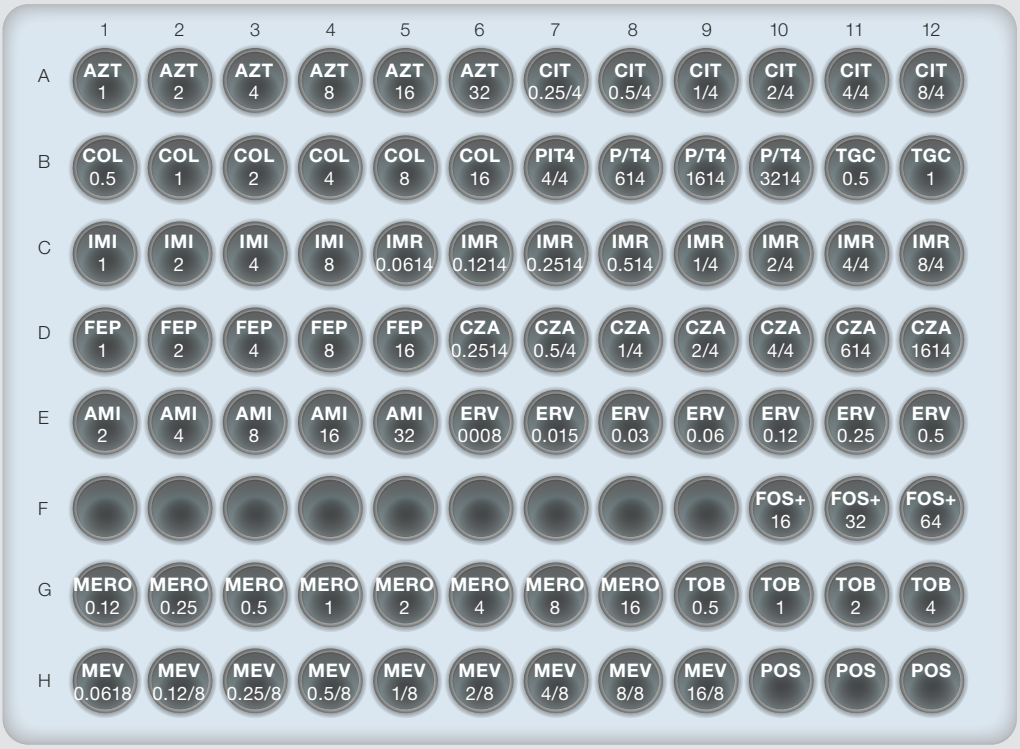
Culti-Loops product code	Organism description
R4607050	Escherichia coli ATCC® 25922™
R4601971	Escherichia coli ATCC® 35218™
R4601316	Klebsiella pneumoniae ATCC® BAA-2814™
R4603074	Klebsiella pneumoniae ATCC®700603™
R4607060	Pseudomonas aeruginosa ATCC® 27853™
R4601314	Escherichia coli NCTC 13846
Additional QC strains used for product release	
R4607030	Enterococcus faecalis ATCC® 29212™
R4607011	Staphylococcus aureus subsp. aureus ATCC® 29213™
R4609384	Klebsiella pneumoniae ATCC® BAA-1705™

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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AMI	Amikacin
AZT	Aztreonam
FEP	Cefepime
CZA	Ceftazidime / Avibactam Constant 4
CIT	Ceftolozane / Tazobactam Constant 4
COL	Colistin
ERV	Eravacycline
FOS+	Fosfomycin+glucose-6-phosphate
IMI	Imipenem
IMR	Imipenem / Relebactam Constant 4
MERO	Meropenem
MEV	Meropenem / Vaborbactam Constant 8
P/T4	Piperacillin / Tazobaclam Constant 4
POS	Positive Control
TGC	Tigecycline
TOB	Tobramycin

*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 Plate
with Colistin, Ceftazidime/Avibactam and Ceftolozane/Tazobactam DKMGN

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative isolates	**Manual and semi-automated** 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

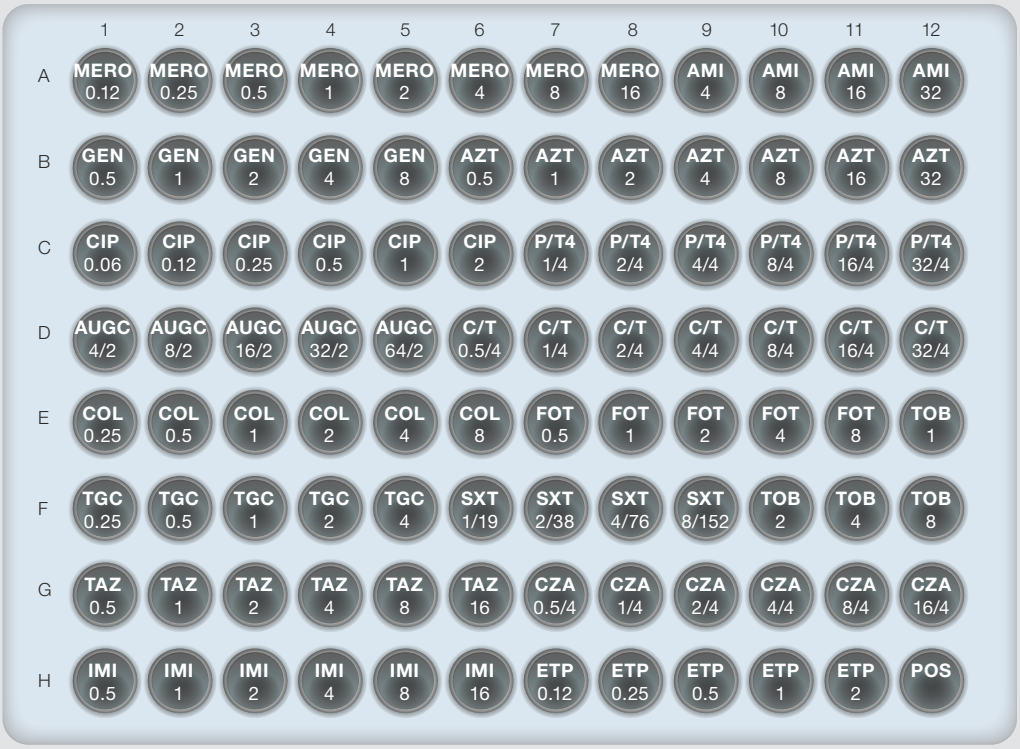
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	*Klebsiella pneumoniae* ATCC®700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used in product release testing	
R4607030	*Enterococcus faecalis* 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AMI	Amikacin
AUGC	Amoxicillin / clavulanic acid constant 2
AZT	Aztreonam
FOT	Cefotaxime
TAZ	Ceftazidime
CZA	Ceftazidime/avibactam
C/T	Ceftolozane/tazobactam 4
CIP	Ciprofloxacin
COL	Colistin
ETP	Ertapenem
GEN	Gentamicin
IMI	Imipenem
MERO	Meropenem
P/T4	Piperacillin / tazobactam constant 4
POS	Positive Control
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 Plate
with Colistin, Ceftazidime/Avibactam and Ceftolozane/Tazobactam EURGNCOL

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative isolates	**Manual and semi-automated** 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 in product release testing	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	COL 0.25	P/T4 4/4	C/T 4/4	POS	COL 0.25	P/T4 4/4	C/T 4/4	POS	COL 0.25	P/T4 4/4	C/T 4/4	POS
B	COL 0.5	P/T4 8/4	C/T 8/4	MERO 0.25	COL 0.5	P/T4 8/4	C/T 8/4	MERO 0.25	COL 0.5	P/T4 8/4	C/T 8/4	MERO 0.25
C	COL 1	P/T4 16/4	CZA 1/4	MERO 0.5	COL 1	P/T4 16/4	CZA 1/4	MERO 0.5	COL 1	P/T4 16/4	CZA 1/4	MERO 0.5
D	COL 2	P/T4 32/4	CZA 2/4	MERO 1	COL 2	P/T4 32/4	CZA 2/4	MERO 1	COL 2	P/T4 32/4	CZA 2/4	MERO 1
E	COL 4	C/T 0.25/4	CZA 4/4	MERO 2	COL 4	C/T 0.25/4	CZA 4/4	MERO 2	COL 4	C/T 0.25/4	CZA 4/4	MERO 2
F	COL 8	C/T 0.5/4	CZA 8/4	MERO 4	COL 8	C/T 0.5/4	CZA 8/4	MERO 4	COL 8	C/T 0.5/4	CZA 8/4	MERO 4
G	P/T4 1/4	C/T 1/4	CZA 16/4	MERO 8	P/T4 1/4	C/T 1/4	CZA 16/4	MERO 8	P/T4 1/4	C/T 1/4	CZA 16/4	MERO 8
H	P/T4 2/4	C/T 2/4	MERO 0.12	MERO 16	P/T4 2/4	C/T 2/4	MERO 0.12	MERO 16	P/T4 2/4	C/T 2/4	MERO 0.12	MERO 16

Antimicrobics

COL	Colistin
P/T4	Piperacillin / tazobactam constant 4
C/T	Ceftolozane/tazobactam 4
CZA	Ceftazidime/avibactam
MERO	Meropenem
POS	Positive Control

*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 Plate for Non-fermenter Isolates

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious, Gram negative non-fermenter isolates such as *Pseudomonas* spp. and *Acinetobacter* spp.	**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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	TAZ 16	PIP 64	P/T4 64/4	FOP 32	IMI 8	TIC 64	A/S2 16/8	CHL 16	AXO 32	CAR 256	CIP 2	GEN 8
B	TAZ 8	PIP 32	P/T4 32/4	FOP 16	IMI 4	TIC 32	A/S2 8/4	CHL 8	AXO 16	CAR 128	CIP 1	GEN 4
C	TAZ 4	PIP 16	P/T4 16/4	FOP 8	IMI 2	TIC 16	A/S2 4/2	CHL 4	AXO 8	CAR 64	CIP 0.5	GEN 2
D	TAZ 2	PIP 8	P/T4 8/4	FOP 4	IMI 1	TIC 8	A/S2 2/1	CHL 2	AXO 4	CAR 32	CIP 0.25	GEN 1
E	TAZ 1	FIS 256	AMI 32	LOM 4	TIM2 128/2	SXT 4/76	FOT 32	TOB 8	FEP 16	AZT 16	TET 8	NEG
F	LEVO 4	LEVO 0.12	AMI 16	LOM 2	TIM2 64/2	SXT 2/38	FOT 16	TOB 4	FEP 8	AZT 8	TET 4	POS
G	LEVO 2	LEVO 0.25	AMI 8	LOM 1	TIM2 32/2	SXT 1/19	FOT 8	TOB 2	FEP 4	AZT 4	TET 2	POS
H	LEVO 1	LEVO 0.5	AMI 4	LOM 0.5	TIM2 16/2	SXT 0.5/9.5	FOT 4	TOB 1	FEP 2	AZT 2	TET 1	POS

Antimicrobics

AMI	Amikacin
A/S2	Ampicillin/Sulbactam 2:1 ratio
AXO	Ceftriaxone
AZT	Aztreonam
CAR	Carbenicillin
CHL	Chloramphenicol
CIP	Ciprofloxacin
FEP	Cefepime
FIS	Sulfisoxazole
FOP	Cefoperazone
FOT	Cefotaxime
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
LOM	Lomefloxacin
NEG	Negative Control
P/T4	Piperacillin/Tazobactam constant 4
PIP	Piperacillin
POS	Positive Control
SXT	Trimethoprim/Sulfamethoxazole
TAZ	Ceftazidime
TET	Tetracycline
TIC	Ticarcillin
TIM2	Ticarcillin/Clavulanic acid constant 2
TOB	Tobramycin

*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 3 Isolate Urine Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram negative organisms isolated from a urine culture	**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

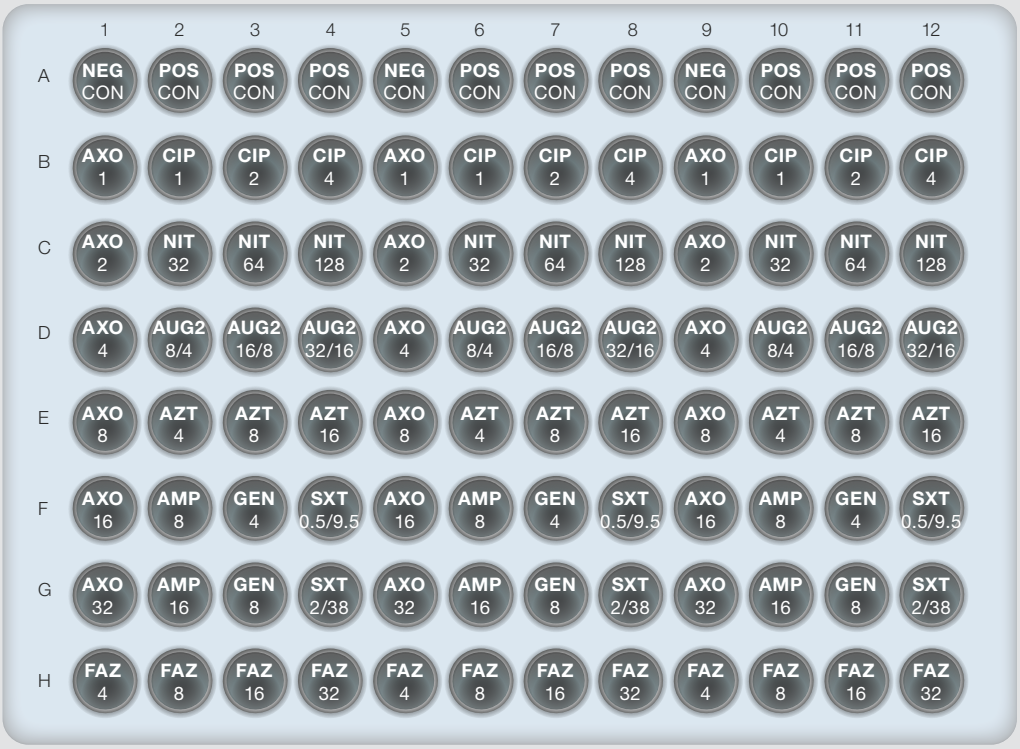
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4603074	Klebsiella pneumoniae ATCC® 700603™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis*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

AMP	Ampicillin
AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
AXO	Ceftriaxone
AZT	Aztreonam
CIP	Ciprofloxacin
FAZ	Cefazolin
GEN	Gentamicin
NEG	Negative Control
NIT	Nitrofurantoin
POS	Positive Control
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 ESBL Confirmatory Test Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing extended-spectrum β-lactamase (ESBL) producing nonfastidious Gram negative 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 (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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AXO 1	AXO 2	AXO 4	AXO 8	AXO 16	AXO 32	AXO 64	AXO 128	MERO 1	MERO 2	MERO 4	MERO 8
B	CEP 8	CEP 16	POD 0.25	POD 0.5	POD 1	POD 2	POD 4	POD 8	POD 16	POD 32	CIP 1	CIP 2
C	FOT 0.25	FOT 0.5	FOT 1	FOT 2	FOT 4	FOT 8	FOT 16	FOT 32	FOT 64	GEN 4	GEN 8	GEN 16
D	F/C 0.12/4	F/C 0.25/4	F/C 0.5/4	F/C 1/4	F/C 2/4	F/C 4/4	F/C 8/4	F/C 16/4	F/C 32/4	F/C 64/4	AMP 8	AMP 16
E	TAZ 0.25	TAZ 0.5	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TAZ 16	TAZ 32	TAZ 64	TAZ 128	FAZ 8	FAZ 16
F	T/C 0.12/4	T/C 0.25/4	T/C 0.5/4	T/C 1/4	T/C 2/4	T/C 4/4	T/C 8/4	T/C 16/4	T/C 32/4	T/C 64/4	T/C 128/4	POS
G	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	IMI 16	P/T4 4/4	P/T4 8/4	P/T4 16/4	P/T4 32/4	P/T4 64/4	POS
H	FEP 1	FEP 2	FEP 4	FEP 8	FEP 16	FOX 4	FOX 8	FOX 16	FOX 32	FOX 64	NEG	POS

Antimicrobics

AMP	Ampicillin
AXO	Ceftriaxone
CEP	Cephalothin
CIP	Ciprofloxacin
F/C	Cefotaxime/Clavulanic acid
FAZ	Cefazolin
FEP	Cefepime
FOT	Cefotaxime
FOX	Cefoxitin
GEN	Gentamicin
IMI	Imipenem
MERO	Meropenem
NEG	Negative Control
P/T4	Piperacillin/Tazobactam constant 4
POD	Cefpodoxime
POS	Positive Control
T/C	Ceftazidime/Clavulanic acid
TAZ	Ceftazidime

*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 Positive MIC Plate GPALL1F

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive 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 (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

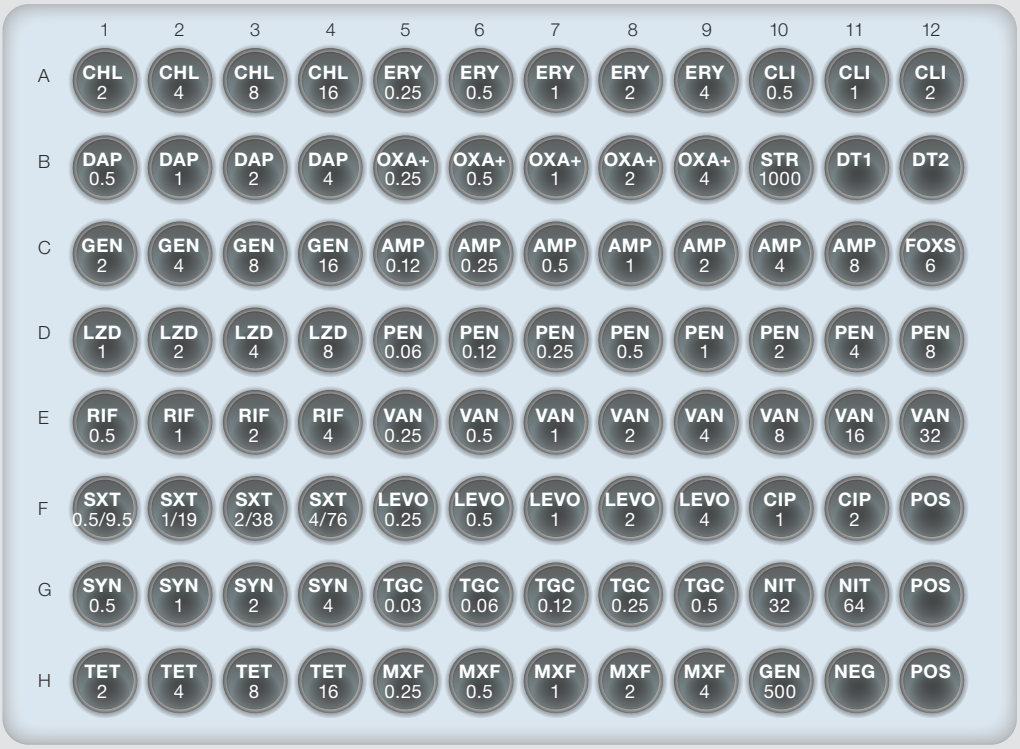
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4606512	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-976™
R4607010	*Staphylococcus aureus* subsp. *aureus* ATCC® 25923™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains 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™

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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

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

ATCC Licensed Derivative

Sensititre Gram Positive MIC Plate with Ceftaroline/Telavancin

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive 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 (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™
R4607010	*Staphylococcus aureus* subsp. *aureus* ATCC® 25923™
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™

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, semi-automatically with Vizion or manually with 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	ERY 1	CIP 2	CIP 4	NEG	POS

Antimicrobics

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

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

ATCC Licensed Derivative

Sensititre Gram Positive Plate with Ceftaroline and Telavancin

Intended use	Read method
Antimicrobial susceptibility plate for testing *Staphylococcus* 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 (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

EUCAST 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 in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4606512	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-976™
R4606513	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-977™
R4607010	*Staphylococcus aureus* subsp. *aureus* ATCC® 25923™

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	CPT 0.5	SXT 1/19	LZD 2	TET 0.5	TEI 1	ERY 0.25	TLA 0.03	TOB 0.25	GEN 0.25	VAN 0.5	RIF 0.03	MUP 0.5
B	CPT 1	SXT 2/38	LZD 4	TET 1	TEI 2	ERY 0.5	TLA 0.06	TOB 0.5	GEN 0.5	VAN 1	RIF 0.06	MUP 1
C	CPT 2	SXT 4/76	LZD 8	TET 2	TEI 4	ERY 1	TLA 0.12	TOB 1	GEN 1	VAN 2	RIF 0.12	MUP 2
D	CPT 4	SXT 8/152	LZD 16	TET 4	TEI 8	ERY 2	TLA 0.25	TOB 2	GEN 2	VAN 4	RIF 0.25	MUP 4
E	FUS 0.5	DAP 0.5	CLI 0.12	LEVO 0.5	TEI 16	ERY 4	TLA 0.5	TOB 4	GEN 4	VAN 8	RIF 0.5	MUP 8
F	FUS 1	DAP 1	CLI 0.25	LEVO 1	NOR 4	DT1	TLA 1	TOB 8	GEN 8	VAN 16	RIF 1	MUP 256
G	FUS 2	DAP 2	CLI 0.5	LEVO 2	NOR 8	DT2	MXF 0.25	MXF 0.5	MXF 1	MXF 2	POS	NEG
H	FUS 4	DAP 4	CLI 1	LEVO 4	NOR 16	FOX 1	FOX 2	FOX 4	FOX 8	FOXS 6	POS	POS

Antimicrobics

CPT	Ceftaroline
CLI	Clindamycin
DT1	D Test 1
DT2	D Test 2
DAP	Daptomycin
ERY	Erythromycin
FUS	Fusidate
FOX	Cefoxitin
FOXS	Cefoxitin screen
GEN	Gentamicin
LEVO	Levofloxacin
LZD	Linezolid
MXF	Moxifloxacin
MUP	Mupirocin
NEG	Negative control
NOR	Norfloxacin
POS	Positive control
RIF	Rifampin
SXT	Trimethoprim/Sulfanethoxazole
TEI	Teicoplanin
TLA	Telavancin
TET	Tetracycline
TOB	Tobramycin
VAN	Vancomycin

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

ATCC Licensed Derivative

Sensititre Gram Positive MIC Plate GPN3F

Intended use	Read method
Antimicrobial susceptibility plate for testing nonfastidious Gram positive 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 (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™
R4607010	*Staphylococcus aureus* subsp. *aureus* ATCC® 25923™
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™

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	CLI 0.12	CLI 0.25	CLI 0.5	CLI 1	CLI 2	GEN 500	STR 1000
B	SYN 0.12	SYN 0.25	SYN 0.5	SYN 1	SYN 2	SYN 4	DAP 0.25	DAP 0.5	DAP 1	DAP 2	DAP 4	DAP 8
C	VAN 1	VAN 2	VAN 4	VAN 8	VAN 16	VAN 32	VAN 64	VAN 128	TET 2	TET 4	TET 8	TET 16
D	AMP 0.12	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AMP 16	GEN 2	GEN 4	GEN 8	GEN 16
E	RIF 0.5	LEVO 0.25	LEVO 0.5	LEVO 1	LEVO 2	LEVO 4	LEVO 8	LZD 0.5	LZD 1	LZD 2	LZD 4	LZD 8
F	RIF 1	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	CIP 0.5	CIP 1	CIP 2
G	RIF 2	SXT 1/19	SXT 2/38	SXT 4/76	AXO 8	AXO 16	AXO 32	AXO 64	GAT 1	GAT 2	GAT 4	GAT 8
H	RIF 4	SXT 0.5/9.5	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	OXA+ 4	OXA+ 8	NEG	POS	POS	POS

Antimicrobics

AMP	Ampicillin
AXO	Ceftriaxone
CIP	Ciprofloxacin
CLI	Clindamycin
DAP	Daptomycin
ERY	Erythromycin
GAT	Gatifloxacin
GEN	Gentamicin
LEVO	Levofloxacin
LZD	Linezolid
NEG	Negative Control
OXA+	Oxacillin+2%NaCl
PEN	Penicillin
POS	Positive Control
RIF	Rifampin
STR	Streptomycin
SXT	Trimethoprim / sulfamethoxazole
SYN	Quinupristin / dalfopristin
TET	Tetracycline
VAN	Vancomycin

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

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Sensititre *Enterococcus* MIC Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Enterococcus* 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 (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

EUCAST recommended routine QC strains

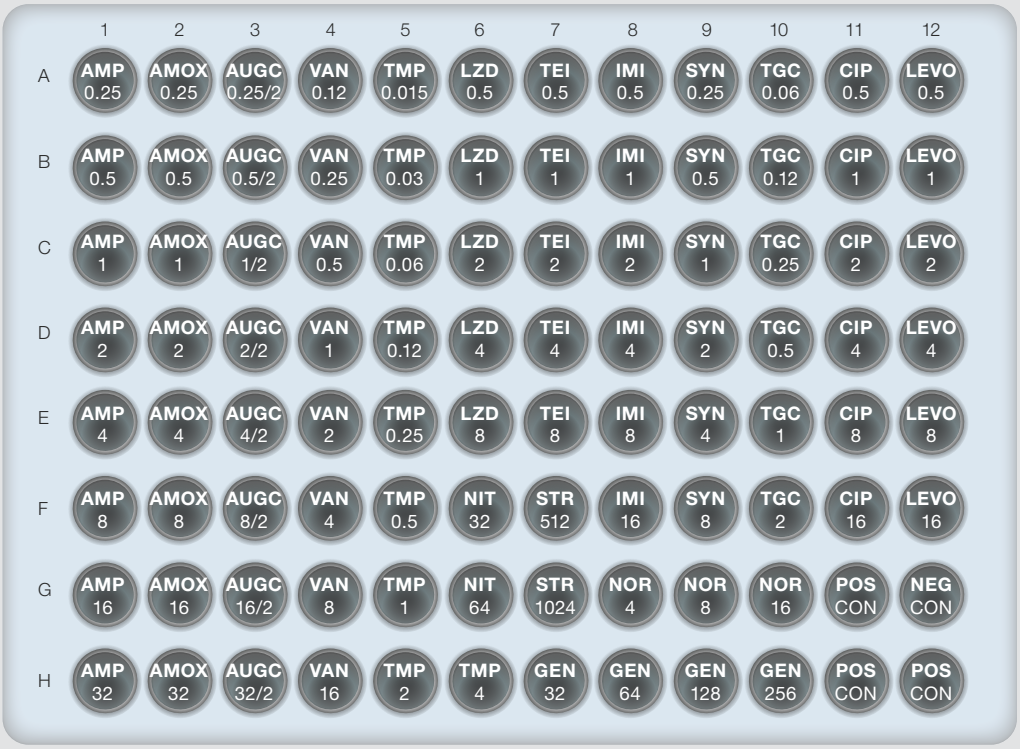
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4606512	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-976™
R4607010	*Staphylococcus aureus* subsp. *aureus* ATCC® 25923™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4606513	*Staphylococcus aureus* subsp. *aureus* ATCC® BAA-977™

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, semi-automatically with Vizion or manually with Viewbox



Antimicrobics

AMOX	Amoxicillin
AUGC	Amoxicillin/Clavulanic acid constant 2
AMP	Ampicillin
CIP	Ciprofloxacin
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
LZD	Linezolid
NEG	Negative Control
NIT	Nitrofurantoin
NOR	Norfloxacin
POS	Positive Control
SYN	Quinupristin/dalfopristin
STR	Streptomycin
TEI	Teicoplanin
TGC	Tigecycline
TMP	Trimethoprim
VAN	Vancomycin

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

ATCC Licensed Derivative

Sensititre *Streptococcus* Species MIC Plate

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 w/ 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 18-24 hours

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

	1	2	3	4	5	6	7	8	9	10	11	12
A	MXF 1	MXF 2	MXF 4	MXF 8	PEN 0.03	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4
B	LEVO 0.05	LEVO 1	LEVO 2	LEVO 4	MERO 0.25	MERO 0.5	MERO 1	MERO 2	AZI 0.25	AZI 0.5	AZI 1	AZI 2
C	TET 1	TET 2	TET 4	TET 8	ETP 0.5	ETP 1	ETP 2	ERY 4	ETP 0.25	ERY 0.5	ERY 1	ERY 2
D	FUR 0.5	FUR 1	FUR 2	FUR 4	AUG2 2/1	AUG2 4/2	AUG2 8/4	AUG2 16/8	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76
E	AXO 0.12	AXO 0.25	AXO 0.5	AXO 1	AXO 2	LZD 0.25	LZD 0.5	LZD 1	LZD 2	LZD 4	VAN 0.5	VAN 1
F	FOT 0.12	FOT 0.25	FOT 0.5	FOT 1	FOT 2	FOT 4	CLI 0.12	CLI 0.25	CLI 0.5	CLI 1	VAN 2	VAN 4
G	DAP 0.06	DAP 0.12	DAP 0.25	DAP 0.5	DAP 1	DAP 2	FEP 0.5	FEP 1	FEP 2	FEP 4	FEP 8	POS
H	CHL 1	CHL 2	CHL 4	CHL 8	CHL 16	CHL 32	TGC 0.015	TGC 0.03	TGC 0.06	TGC 0.12	POS	POS

Antimicrobics

AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
AZI	Azithromycin
FEP	Cefepime
FOT	Cefotaxime
AXO	Ceftriaxone
FUR	Cefuroxime
CHL	Chloramphenicol
CLI	Clindamycin
DAP	Daptomycin
ETP	Ertapenem
ERY	Erythromycin
LEVO	Levofloxacin
LAZD	Linezolid
MERO	Meropenem
MXF	Moxifloxacin
PEN	Penicillin
POS	Positive control
TET	Tetracycline
TGC	Tigecycline
SXT	Trimethoprim/Sulfamethoxazole
VAN	Vancomycin

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Sensititre Haemophilus and *S.pneumoniae* MIC Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Streptococcus pneumoniae* and *Haemophilus influenzae* isolates	**Manual and semi-automated** 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 w/ Lysed Horse Blood – autoread (CP11410)**	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)

CLSI recommended routine QC strains

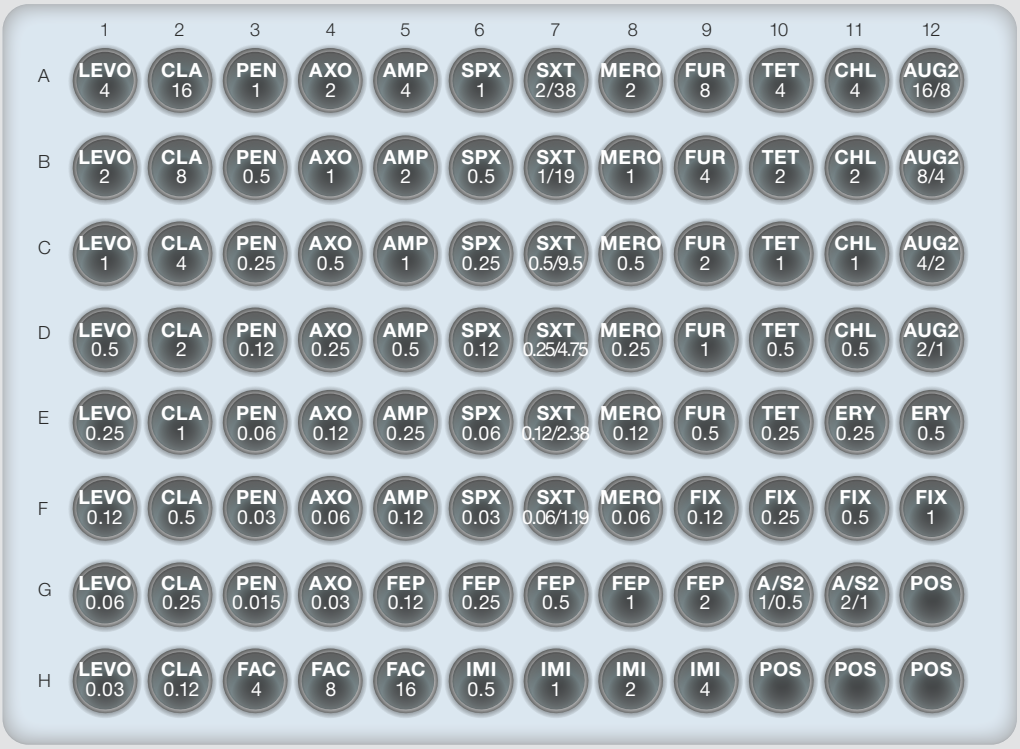
Culti-Loops product code	Organism description
R4603830	*Haemophilus influenzae* ATCC® 49247™
R4603806	*Haemophilus influenzae* ATCC® 49766™
R4609015	*Streptococcus pneumoniae* ATCC®49619

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 50 µL* or 100 µL** of suspension into HTM* or MHB with LHB Tube**

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 for 20-24 hours

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AUG2	Amoxicillin/Clavulanic Acid 2:1 ratio
A/S2	Ampicillin/Sulbactam 2:1 ratio
AMP	Ampicillin
AXO	Ceftriaxone
CHL	Chloramphenicol
CLA	Clarithromycin
ERY	Erythromycin
FAC	Cefaclor
FEP	Cefepime
FIX	Cefixime
FUR	Cefuroxime
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
PEN	Penicillin
POS	Positive control
SPX	Sparfloxacin
SXT	Trimethroprim/Sulfamethoxazole
TET	Tetracycline

*For *Haemophilus*. **For *S. pneumaniae/streptococcus*.

ATCC Licensed Derivative

Sensititre Anaerobe Plate for *B. fragilis* Group

Intended use	Read method
Antimicrobial susceptibility plate for testing anerobic organisms *Bacteroides fragilis* group	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre™ Supplemented Brucella Broth for Anaerobes (T3450)	0.5 McFarland Standard (E1041) Sensititre™ Cation Adjusted Mueller-Hinton Broth with TES (T3462-05)

CLSI recommended routine QC strains

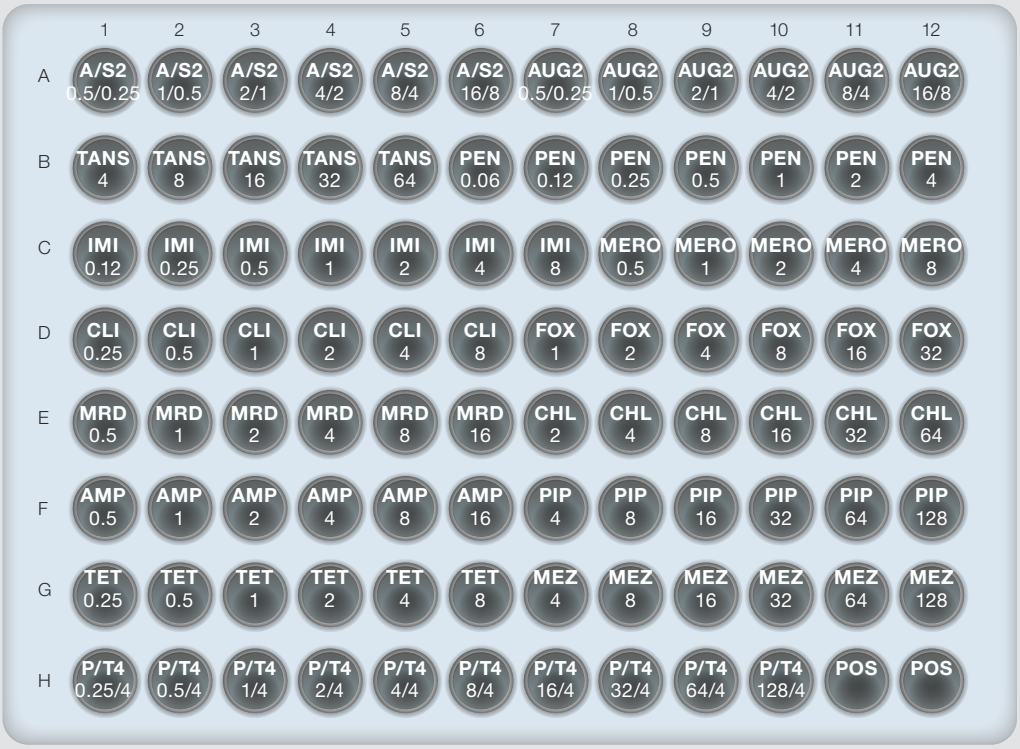
Culti-Loops product code	Organism description
R4601250	*Bacteroides fragilis* ATCC® 25285™
R4601260	*Bacteroides thetaiotaomicron* ATCC® 29741™
Additional QC strains used for product release	
R4601971	*Escherichia coli* ATCC® 35218™

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 semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

ATCC Licensed Derivative

Sensititre Anaerobe MIC Plate

for *B. fragilis* group, with Amoxicillin, Erythromycin, Moxifloxacin and Vancomycin

Intended use	Read method
Antimicrobial susceptibility plate for testing anaerobic organisms *Bacteroides fragilis* group	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Supplemented Brucella Broth for Anaerobes (T3450)	0.5 McFarland Standard (E1041) Sensititre™ Cation Adjusted Mueller-Hinton Broth with TES (T3462-05)

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4601250	*Bacteroides fragilis* ATCC® 25285™
R4601260	*Bacteroides thetaiotaomicron* ATCC® 29741™

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 semi-automatically with Vizion or manually with Manual Viewbox

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

Antimicrobics

AMOX	Amoxicillin
AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
CHL	Chloramphenicol
CLI	Clindamycin
ERY	Erythromycin
FOX	Cefoxitin
IMI	Imipenem
MRD	Metronidazole
MXF	Moxifloxacin
PEN	Penicillin
PIP	Piperacillin
P/T4	Piperacillin/Tazobactam constant 4
POS	Positive Control
TET	Tetracycline

ATCC Licensed Derivative

Sensititre YeastOne antifungal plates provide accurante and true MIC results with its extended range of antifungals like Micafungin.

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.

The YeastOne portfolio includes numerous plate design that include a wide range of antifungals. You can perform your fungal testing on one platform and plate design with clear, easy-to-read end point determination.

All YeastOne plates include:

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

Sensititre YeastOne Plate with Micafungin

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual and semi-automated** 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

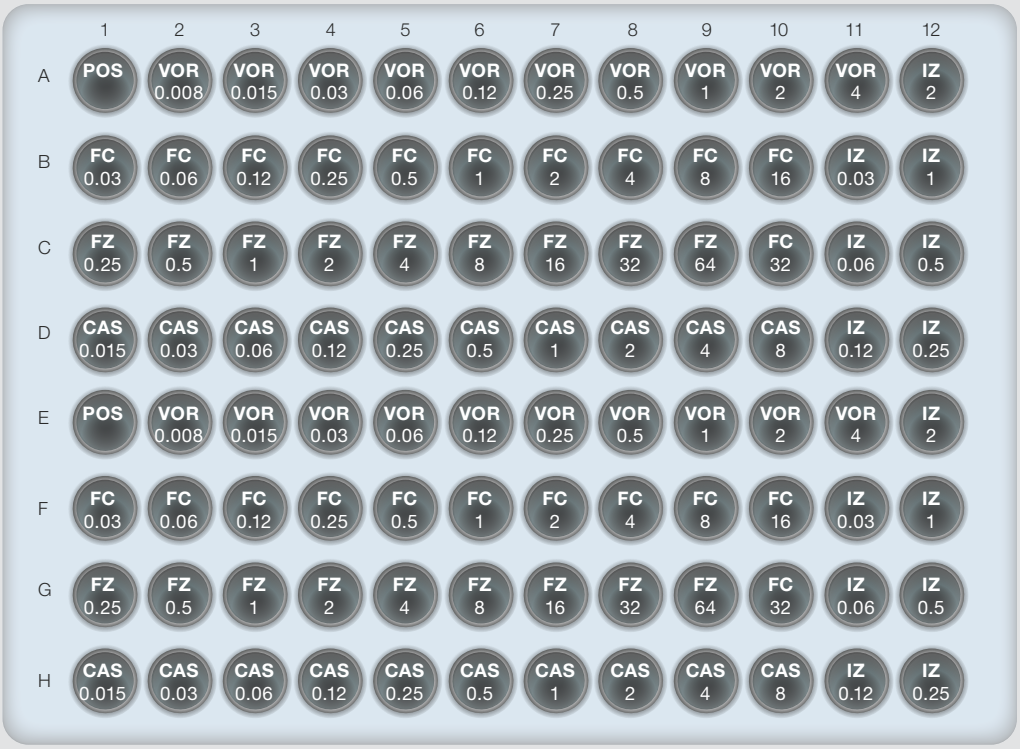
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

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

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

POS	Positive Control
FC	5-Flucytosine
FZ	Fluconazole
CAS	Caspofungin
VOR	Voriconazole
IZ	Itraconazole

ATCC Licensed Derivative

Sensititre YeastOne Plates with Micafungin MIC Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual and semi-automated** 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

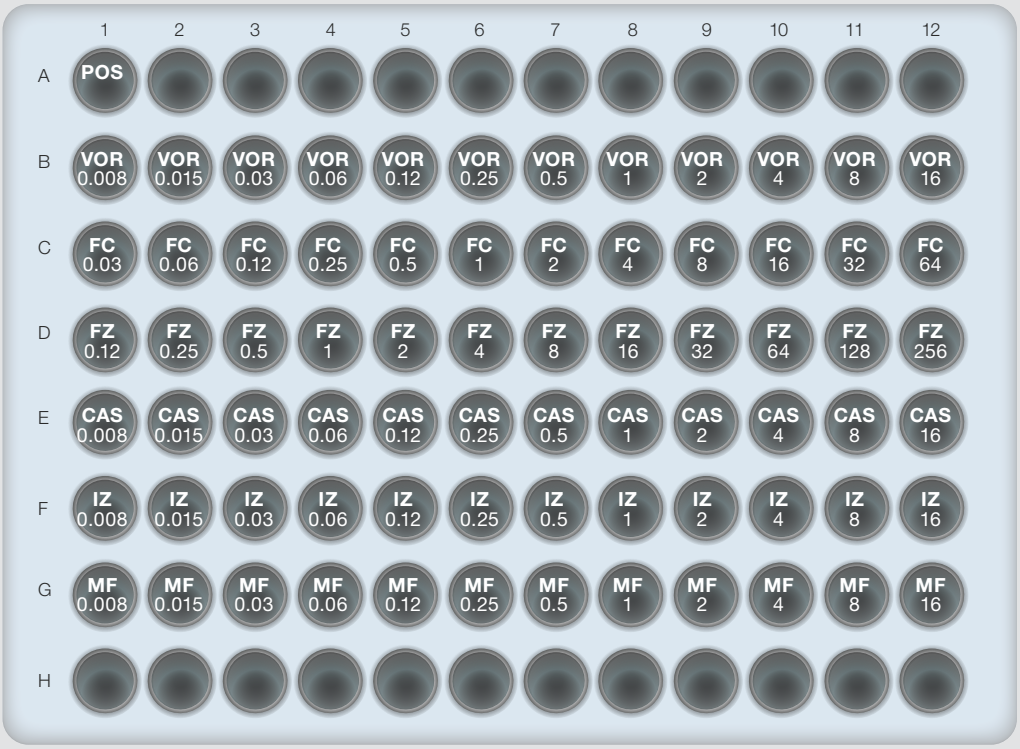
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

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

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

ATCC Licensed Derivative

Sensititre YeastOne Plate with Posaconazole

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual and semi-automated** 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

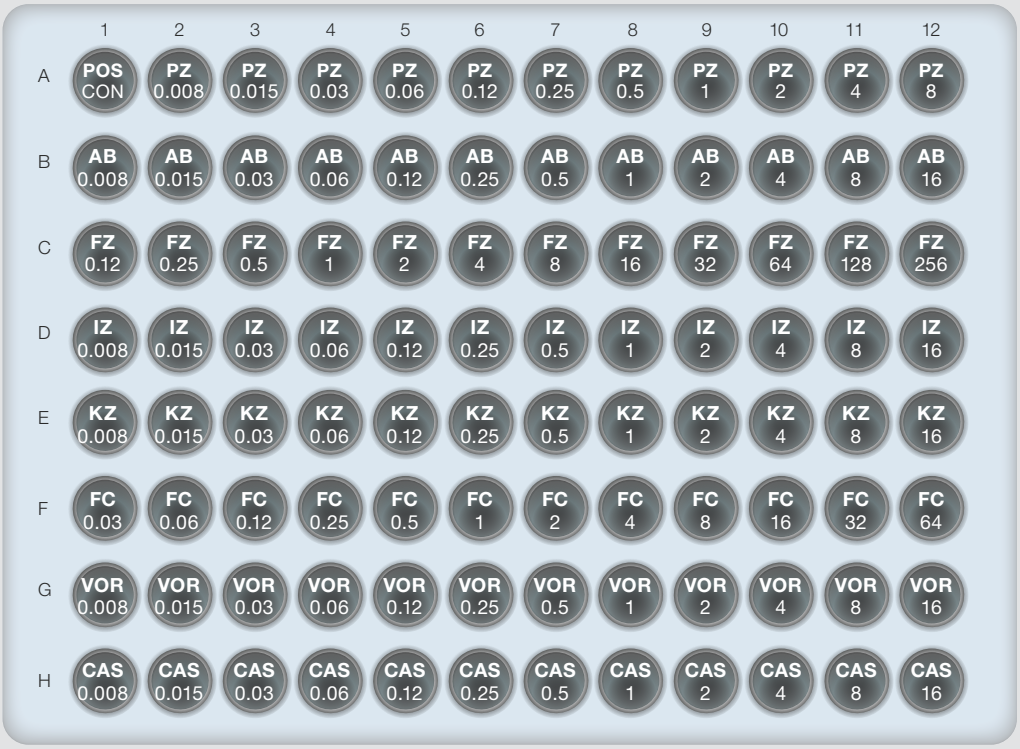
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

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

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

POS	Positive Control
AB	Amphotericin B
FZ	Fluconazole
IZ	IZ Itraconazole
KZ	Ketoconazole
FC	5-Flucytosine
VOR	Voriconazole
CAS	Caspofungin
PZ	Posaconazole

ATCC Licensed Derivative

Sensititre YeastOne Plate with Anidulafungin and Micafungin

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual and semi-automated** 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

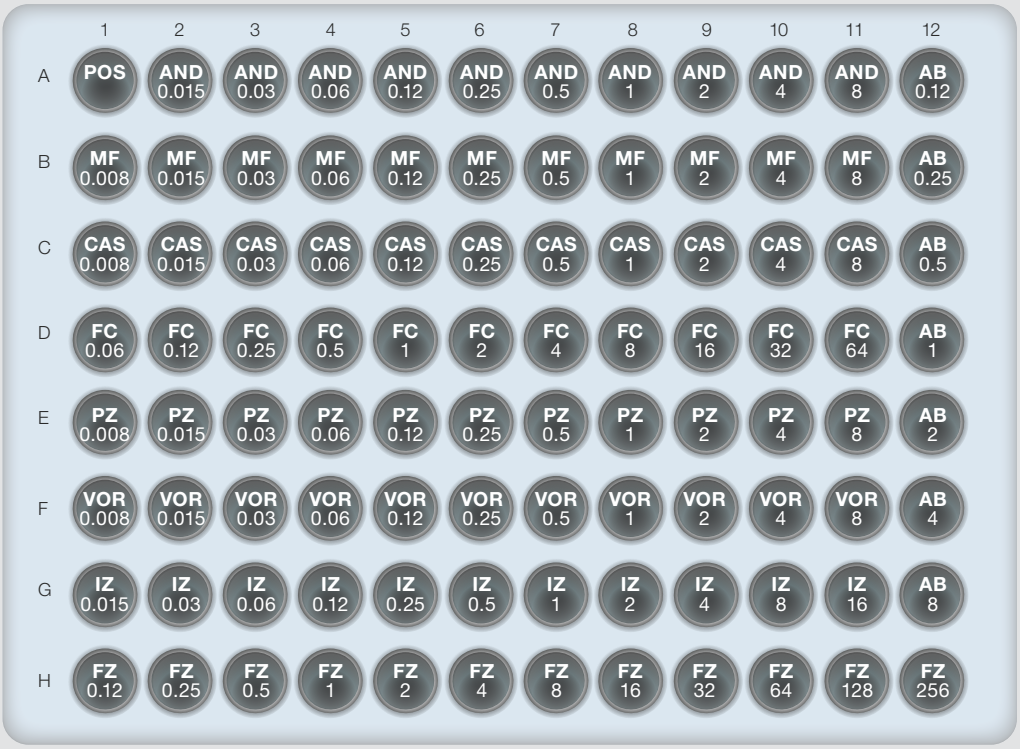
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

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

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AB	Amphotericin B
AND	Anidulafungin
CAS	Caspofungin
FC	5-Flucytosine
FZ	Fluconazole
IZ	Itraconazole
MF	Micafungin
PZ	Posaconazole
POS	Positive control
VOR	Voriconazole

ATCC Licensed Derivative

Sensititre YeastOne Plate with Isavuconazole

Intended use	Read method
Antimicrobial susceptibility plate for testing *Candida* species	**Manual and semi-automated** 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

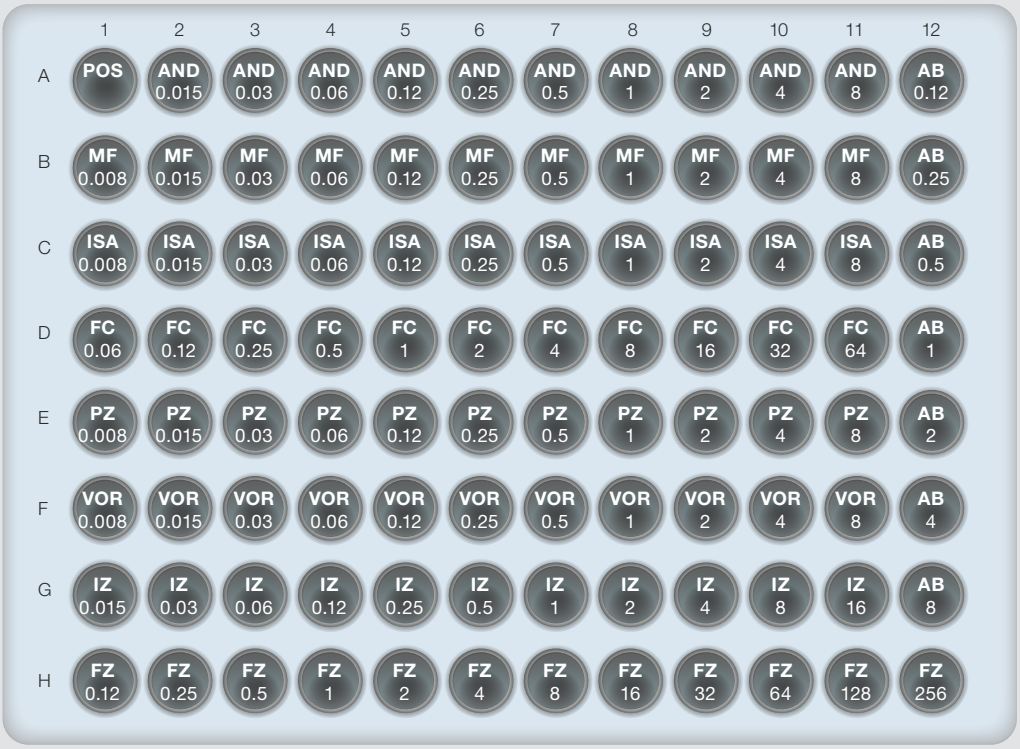
Culti-Loops product code	Organism description
R4601520	*Issatchenkia orientalis* ATCC® 6258™
R4601518	*Candida parapsilosis* ATCC® 22019™

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

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AB	Amphotericin B
AND	Anidulafungin
FC	5-Flucytosine
FZ	Fluconazole
ISA	Isavuconazole
IZ	Itraconazole
MF	Micafungin
POS	Positive Control
PZ	Posaconazole
VOR	Voriconazole

ATCC Licensed Derivative

Sensititre Mycobacterium Tuberculosis MIC Plate

Intended use	Read method
Determiniation of MICs to first and second-line anti-tuberculosis drugs for *Mycobacterium tuberculosis* isolates	**Manual and semi-automated** 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 semi-automatically with Vizion or manually with 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 Rapid Growing Mycobacterium

Intended use	Read method
Antimicrobial susceptibility plate for testing rapidly growing mycobacterium species	**Manual and semi-automated** 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™

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	IMI 0.008	IMI 0.015	IMI 0.03	IMI 0.06	IMI 0.12	IMI 0.25	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	IMI 16
B	IMI 32	TGC 0.03	TGC 0.06	TGC 0.12	TGC 0.25	TGC 0.5	TGC 1	TGC 2	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1
C	DOX 2	DOX 4	DOX 8	AMI 1	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	AMI 64	AMI 128	AMI 256
D	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16	LZD 32
E	TOB 0.12	TOB 0.25	TOB 0.5	TOB 1	TOB 2	TOB 4	TOB 8	TOB 16	FOX 1	FOX 2	FOX 4	FOX 8
F	FOX 16	FOX 32	FOX 64	FOX 128	CFZ 0.03	CFZ 0.06	CFZ 0.12	CFZ 0.25	CFZ 0.5	CFZ 1	CFZ 2	CFZ 4
G	MXF 0.015	MXF 0.03	MXF 0.06	MXF 0.12	MXF 0.25	MXF 0.5	MXF 1	MXF 2	MXF 4	CLA 0.06	CLA 0.12	CLA 0.25
H	CLA 0.5	CLA 1	CLA 2	CLA 4	CLA 8	CLA 16	SXT 0.25/4.75	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	POS

Antimicrobics

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

*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 Plate

Intended use	Read method
Susceptibility testing of rapidly growing mycobacteria, *Nocardia* spp., and other aerobic actinomycetes	**Manual and semi-automated** 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 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	SXT 8/152	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16	LZD 32
B	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	IMI 2	IMI 4	IMI 8	IMI 16	IMI 32	IMI 64
C	MXF 0.25	MXF 0.5	MXF 1	MXF 2	MXF 4	MXF 8	FEP 1	FEP 2	FEP 4	FEP 8	FEP 16	FEP 32
D	FOX 4	FOX 8	FOX 16	FOX 32	FOX 64	FOX 128	AUG2 2/1	AUG2 4/2	AUG2 8/4	AUG2 16/8	AUG2 32/16	AUG2 64/32
E	AMI 1	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	AMI 64	AXO 4	AXO 8	AXO 16	AXO 32	AXO 64
F	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1	DOX 2	DOX 4	DOX 8	DOX 16	MIN 1	MIN 2	MIN 4	MIN 8
G	TGC 0.015	TGC 0.03	TGC 0.06	TGC 0.12	TGC 0.25	TGC 0.5	TGC 1	TGC 2	TGC 4	TOB 1	TOB 2	TOB 4
H	CLA 0.06	CLA 0.12	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4	CLA 8	CLA 16	TOB 8	TOB 16	POS

Antimicrobics

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

*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 Slow Growing Mycobacteria

Intended use	Read method
Antimicrobial susceptibility plate for testing slow growing mycobacterium species	**Manual and semi-automated** 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

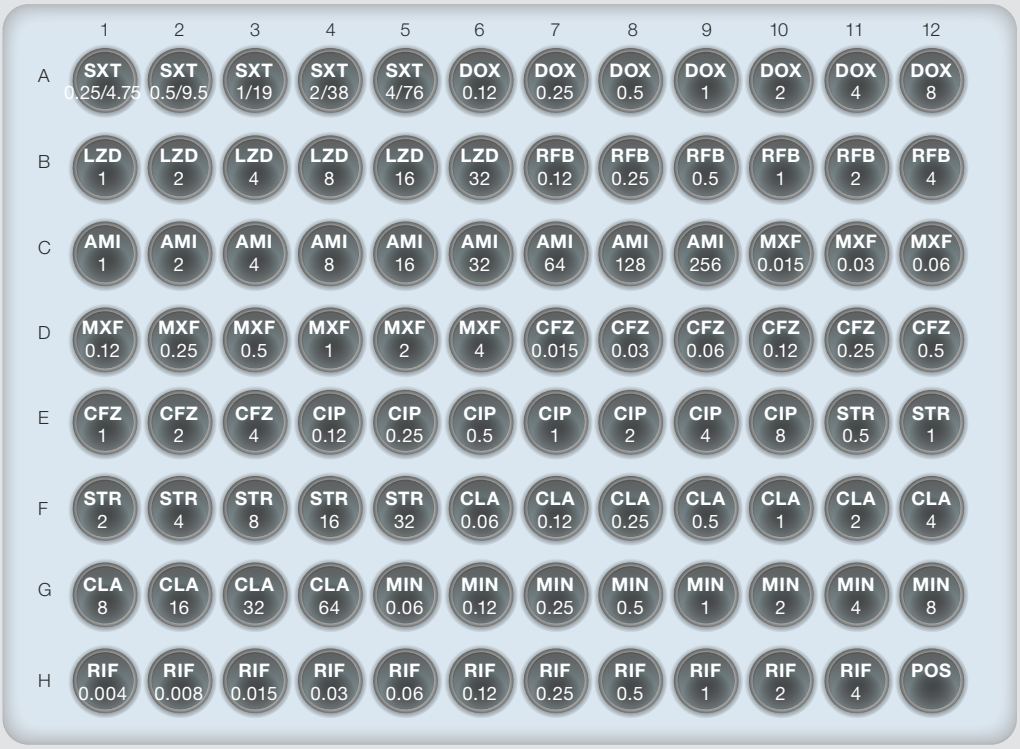
Culti-Loops product code	Organism description
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
N/A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



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

*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 Slow Growing Mycobacterium MIC Plate

Intended use	Read method
Susceptibility testing of slowly growing non-tuberculosis mycobacteria (NTM), i.e. *Mycobacterium avium* complex, *Mycobacterium kansasii* and *Mycobacterium marinum*. Please refer to CLSI for details of testing *M. marinum*	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre MHB with OADC (T8005)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

CLSI recommended routine QC strains

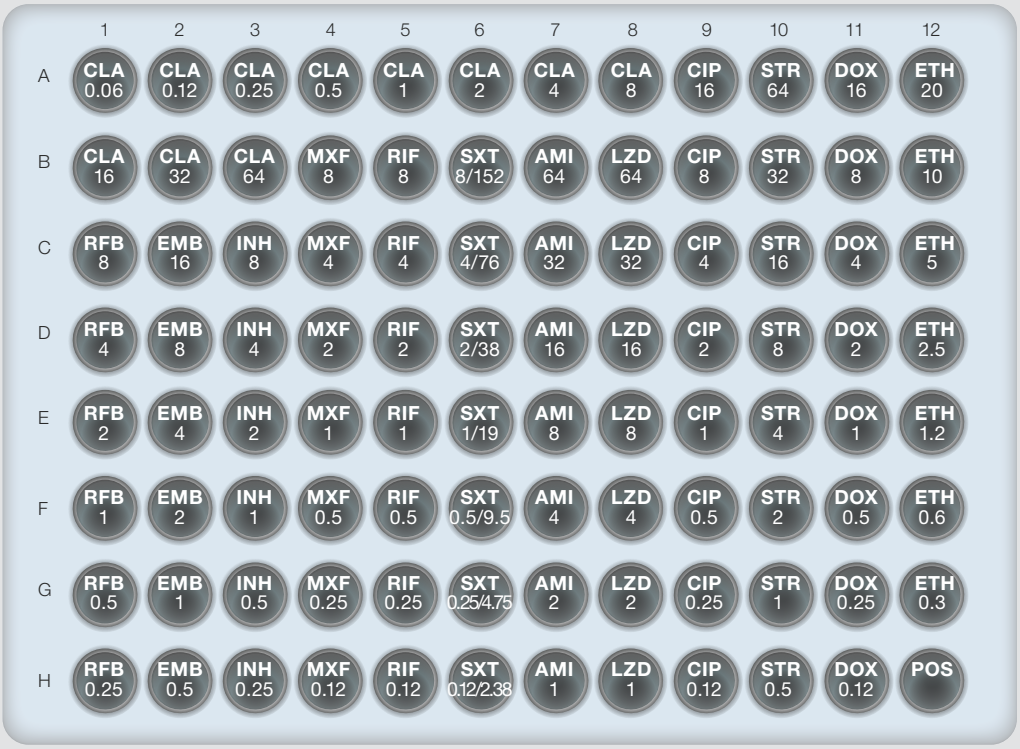
Culti-Loops product code	Organism description
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	*Escherichia coli* ATCC® 25922™
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
N/A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



Antimicrobics

AMI	Amikacin
CIP	Ciprofloxacin
CLA	Clarithromycin
DOX	Doxycycline
EMB	Ethambutol
ETH	Ethionamide
INH	Isoniazid
LZD	Linezolid
MXF	Moxifloxacin
POS	Positive control
RFB	Rifabutin
RIF	Rifampin
STR	Streptomycin
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 Standard Nocardia Plate

Intended use	Read method
Susceptibility testing of Nocardia species and other aerobic actinomycetes	**Manual and semi-automated** 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

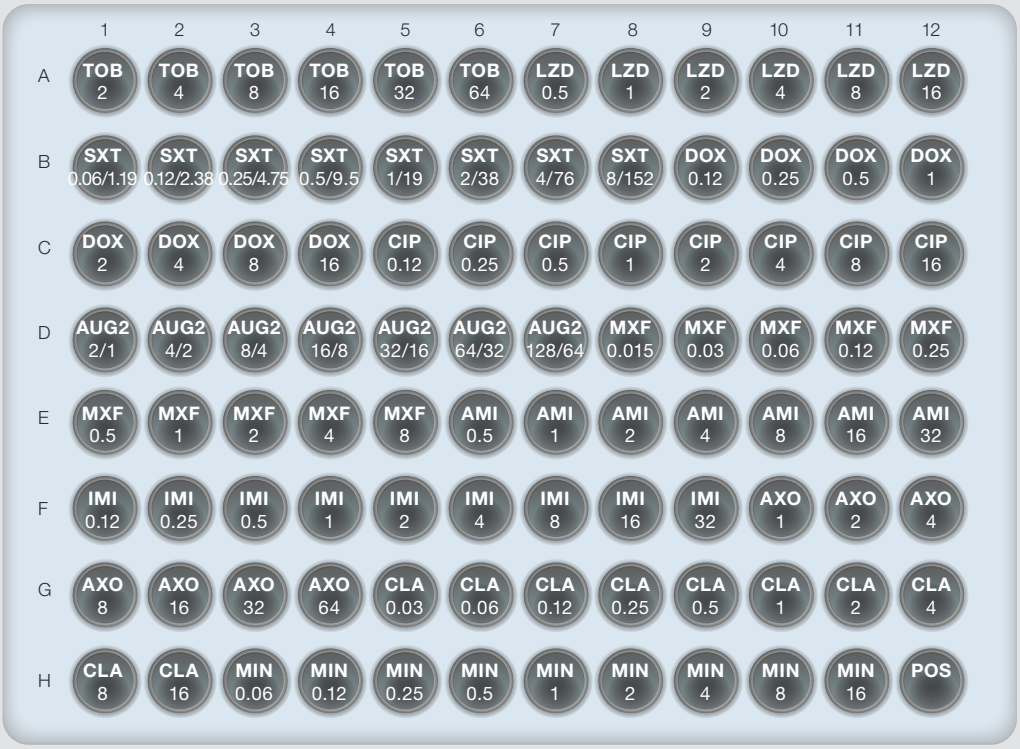
Culti-Loops product code	Organism description
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
R4601971	*Escherichia coli* ATCC® 35218™

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 semi-automatically with Vizion or manually with Manual Viewbox

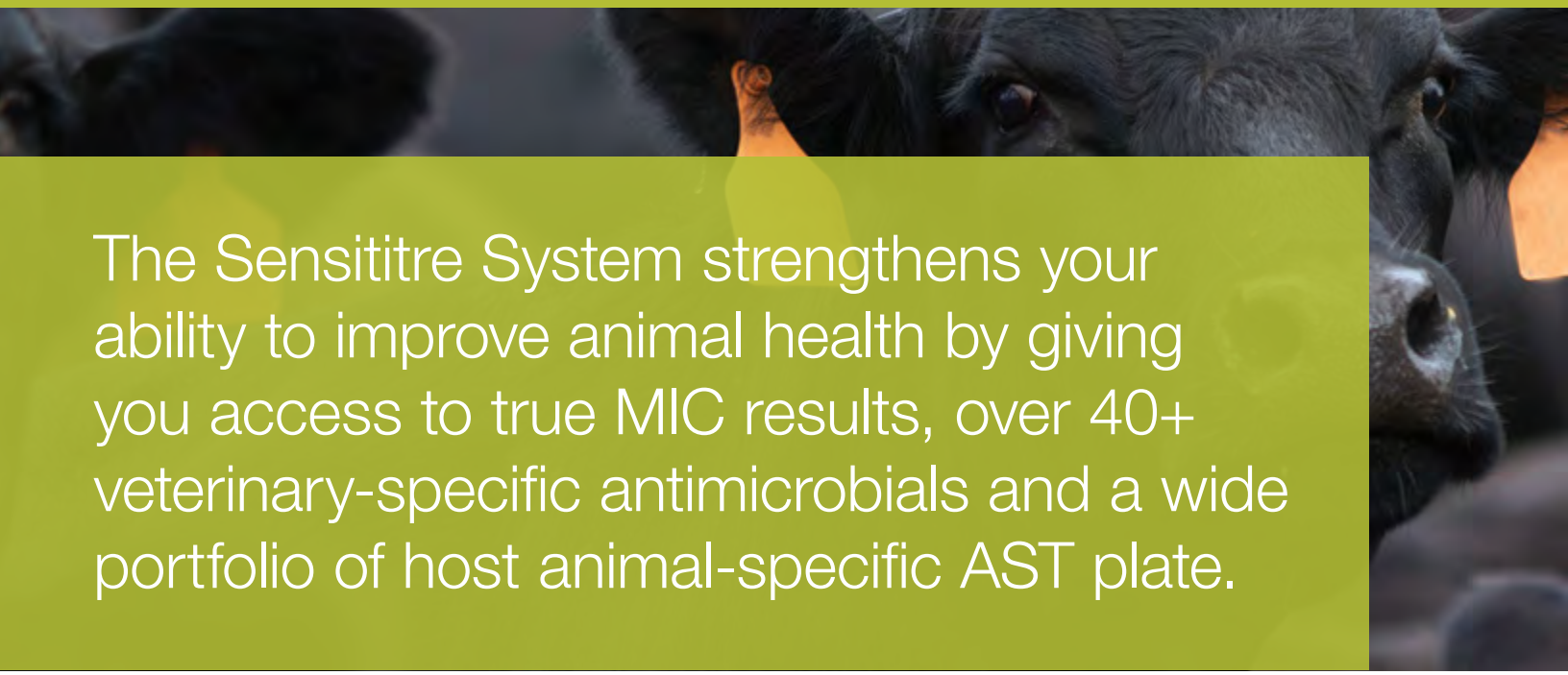


Antimicrobics

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
SXT	Trimethoprim/Sulfamethoxazole
TOB	Tobramycin

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

ATCC Licensed Derivative



The Sensititre System strengthens your ability to improve animal health by giving you access to true MIC results, over 40+ veterinary-specific antimicrobials and a wide portfolio of host animal-specific AST plate.

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 ID/AST System.

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

Host animal-specific AST formats ensure compliance with veterinary CLSI recommendations.

Avian	Mastitis
Bovine/Porcine	Urine
Companion	Topical
Equine	

Vet standard plate formats

		COMPANION			PORCINE	BOVINE/ PORCINE	AVIAN	EQUINE		URINE (all)	BOVINE (mastitis)	TOPICAL (all)
		GRAM NEGATIVE	GRAM POSITIVE		GRAM NEGATIVE/POSITIVE							
	INSTRUMENTS	COMPGN1F	COMPGP1F	COMPAN1F	COMPAN2F	AUSMUPIG	BOPO6F	BOPO7F	AVIAN1F	EQUIN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
FLUORESCENT PLATES	AUTOREAD, SEMI-AUTOMATED AND MANUAL READ (ARIS HiQ, OptiRead, Vizion, manual viewer)	●	●		●			●	●		●	●	●	
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Vizion, Manual viewer, Manual read)													●
Jump to page ▶		56	57	58	59	60	61	62	63	64	65	66	67	68

Sensititre Companion Animal Gram Negative Plate with Pradofloxacin COMPGN1F

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

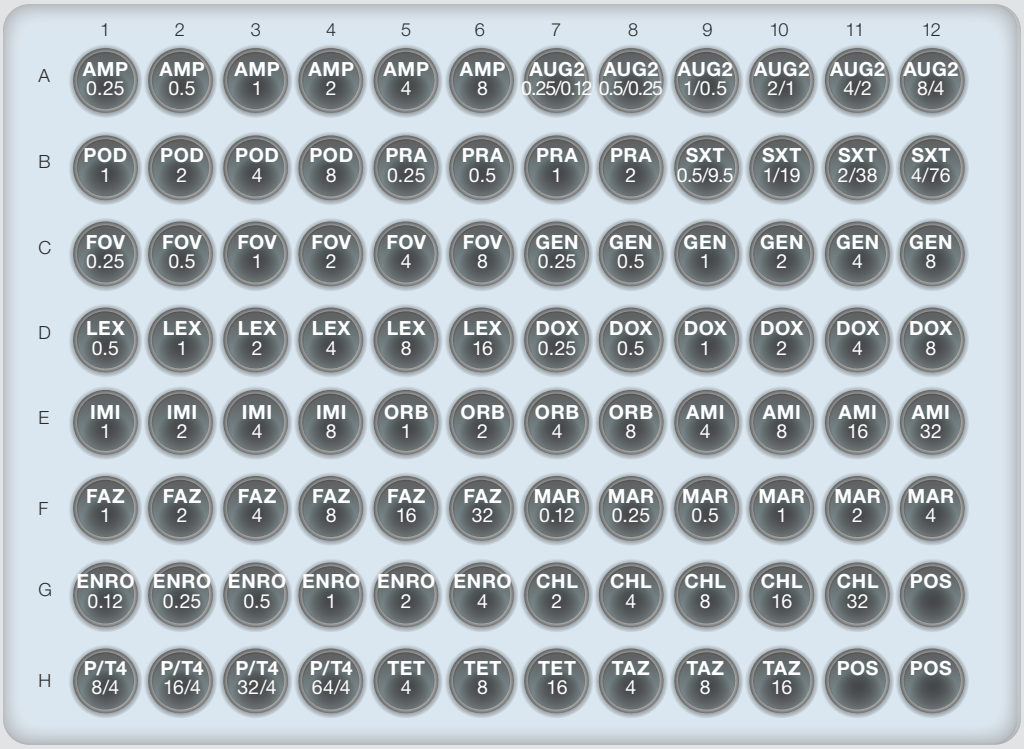
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

*For *Proteus* spp.

ATCC Licensed Derivative

Sensititre Companion Animal Gram Positive Plate with Pradofloxacin COMPGP1F

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AUG2 0.25/0.12	AUG2 0.5/0.25	AUG2 1/0.5	AUG2 2/1	AUG2 4/2	AUG2 8/4
B	CEP 2	CEP 4	FAZ 2	FAZ 4	SXT 2/38	SXT 4/76	MIN 0.5	MIN 1	MIN 2	MAR 1	MAR 2	MAR 4
C	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	CHL 8	CHL 16	CHL 32	PRA 0.25	PRA 0.5	PRA 1	PRA 2
D	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	CLI 0.5	CLI 1	CLI 2	CLI 4
E	AMI 16	AMI 32	NIT 16	NIT 32	NIT 64	IMI 1	IMI 2	IMI 4	DOX 0.12	DOX 0.25	DOX 0.5	NEG
F	ENRO 0.25	ENRO 0.5	ENRO 1	ENRO 2	ENRO 4	TET 0.25	TET 0.5	TET 1	GEN 4	GEN 8	GEN 16	POS
G	POD 2	POD 4	POD 8	FOV 0.06	FOV 0.12	FOV 0.25	FOV 0.5	FOV 1	FOV 2	FOV 4	FOV 8	POS
H	VAN 1	VAN 2	VAN 4	VAN 8	VAN 16	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	RIF 1	RIF 2	POS

Antimicrobics

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

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp.

ATCC Licensed Derivative

Sensititre Companion Animal MIC Plate COMPAN1F

Intended use	Read method
Companion diagnostic testing of veterinary animal specific pathogens	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Organism ID specific (see IFU)	0.5 McFarland Standard (E1041)

Recommended routine QC strains

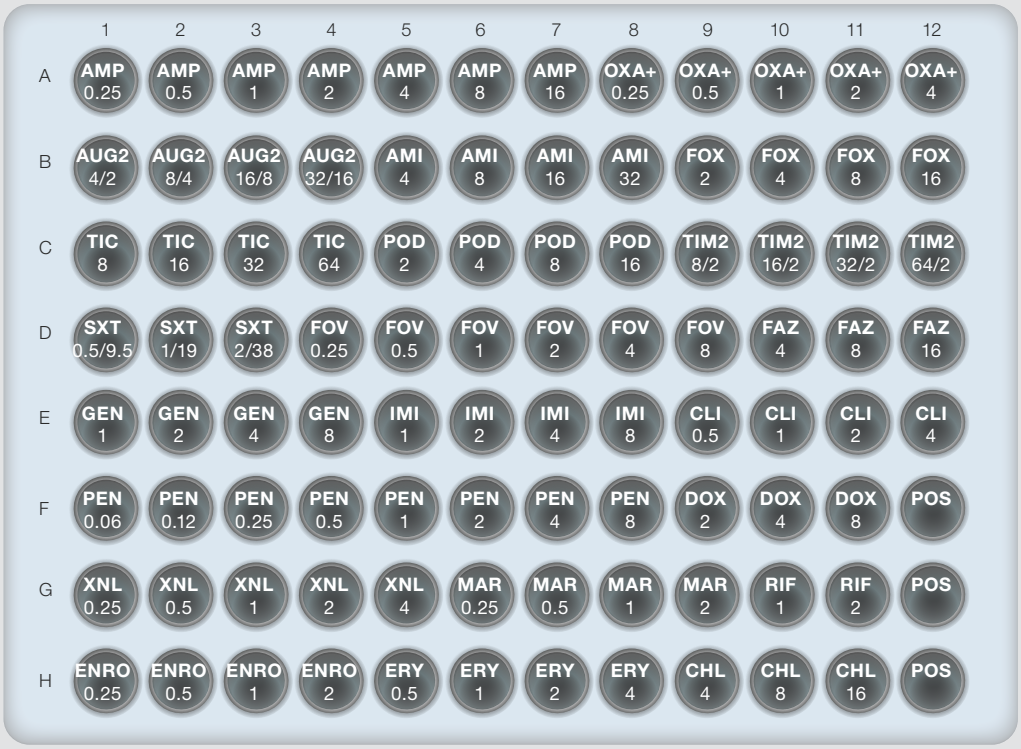
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AMI	Amikacin
AMP	Ampicillin
AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
CHL	Chloramphenicol
CLI	Clindamycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
FAZ	Cefazolin
FOV	Cefovecin
FOX	Cefoxitin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
OXA+	Oxacillin+2%NaCl
PEN	Penicillin
POD	Cefpodoxime
POS	Positive Control
RIF	Rifampin
SXT	Trimethoprim / Sulfamethoxazole
TIC	Ticarcillin
TIM2	Ticarcillin / Clavulanic acid constant 2
XNL	Ceftiofur

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp.

ATCC Licensed Derivative

Sensititre Companion Animal MIC Plate COMPAN2F

Intended use	Read method
Companion diagnostic testing of veterinary animal specific pathogens	**Autoread or manual** Sensititre ARIS HiQ (V4000) Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Organism ID specific (see IFU)	0.5 McFarland Standard (E1041)

CLSI recommended routine QC strains

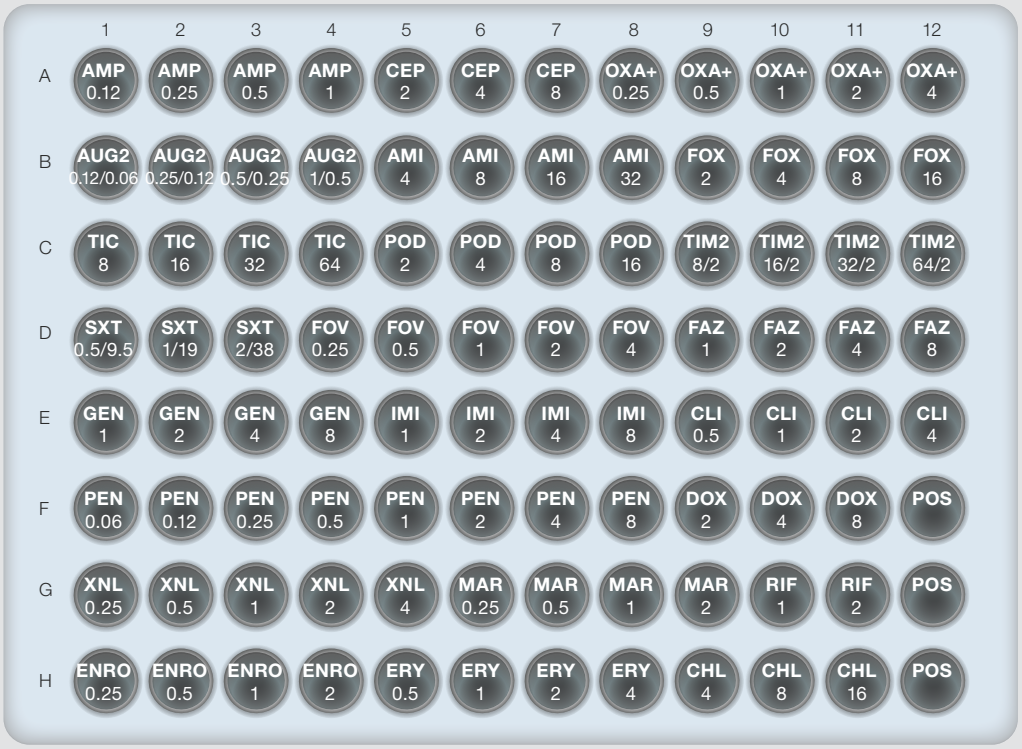
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

Put 3-5 colonies into H_20 to measure a 0.5 McFarland using the Nephelometer, mix 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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AMP	Ampicillin
AMI	Amikacin
AUG2	Amoxicillin / Clavulanic acid 2:1 ratio
CEP	Cephalothin
CHL	Chloramphenicol
CLI	Clindamycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
FAZ	Cefazolin
FOV	Cefovecin
FOX	Cefoxitin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
OXA+	Oxacillin+2%NaCl
PEN	Penicillin
POD	Cefpodoxime
POS	Positive Control
RIF	Rifampin
SXT	Trimethoprim / Sulfamethoxazole
TIC	Ticarcillin
TIM2	Ticarcillin / Clavulanic acid constant 2
XNL	Ceftiofur

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp.

ATCC Licensed Derivative

Sensititre Custom Porcine Panel

Intended use	Read method
Custom plate for porcine isotates	**Manual and semi-automated** 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

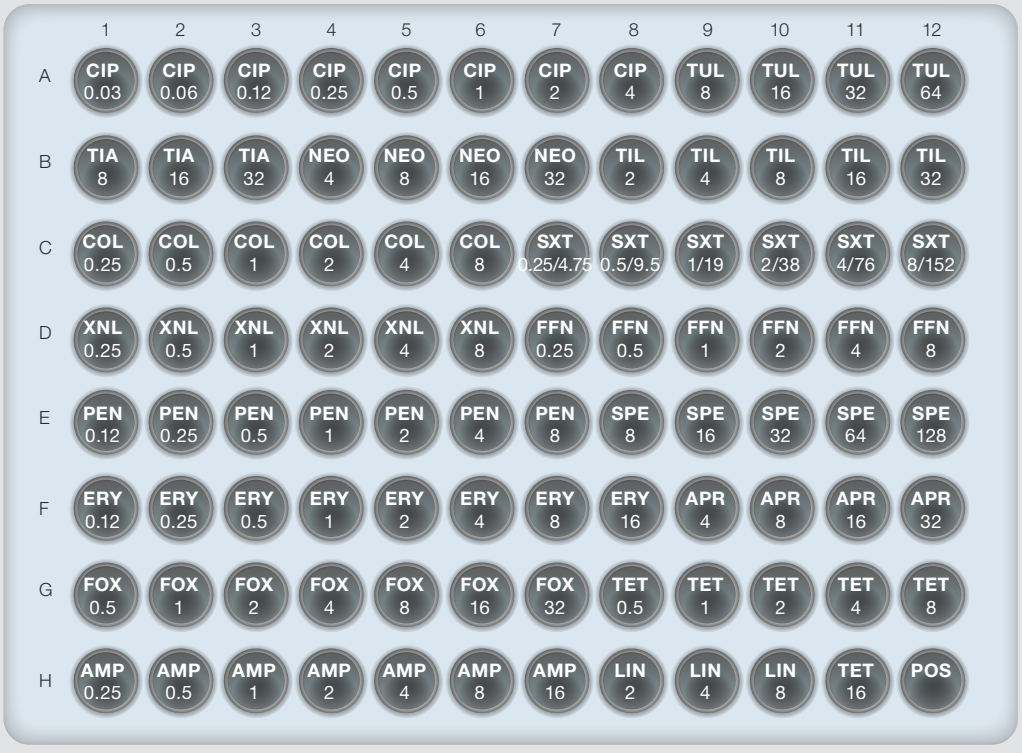
R4609015	*Streptococcus pneumoniae* ATCC® 49619
N/A	*Histophilus somni* ATCC® 700025
N/A	*Actinobacillus pleuropneumoniae* ATCC® 27090

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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

AMP	Ampicillin
APR	Apramycin
CIP	Ciprofloxacin
COL	Colistin
ERY	Erythromycin
FFN	Florfenicol
FOX	Cefoxitin
LIN	Lincomycin
NEO	Neomycin
PEN	Penicillin
POS	Positive Control
SPE	Spectinomycin
SXT	Trimethoprim / sulfamethoxazole
TET	Tetracycline
TIA	Tiamulin
TIL	Tilmicosin
TUL	Tulathromycin
XNL	Ceftiofur

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

ATCC Licensed Derivative

Sensititre Bovine/Porcine One-Isolate MIC 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)

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, semi-automatically with Vizion or manually with Manual Viewbox

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

Antimicrobics

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

*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 Sensititre Vet Bovine Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin. (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)	**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™
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, semi-automatically with Vizion or manually with 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

*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 Avian One-Isolate MIC 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 H20 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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	ENRO 2	ENRO 1	ENRO 0.5	ENRO 0.25	ENRO 0.12	SPE 64	SDM 256	FFN 8	PEN 8	STR 1024	NOV 4	CLI 4
B	GEN 8	GEN 4	GEN 2	GEN 1	GEN 0.5	SPE 32	SDM 128	FFN 4	PEN 4	STR 512	NOV 2	CLI 2
C	XNL 4	XNL 2	XNL 1	XNL 0.5	XNL 0.25	SPE 16	SDM 64	FFN 2	PEN 2	STR 256	NOV 1	CLI 1
D	NEO 32	NEO 16	NEO 8	NEO 4	NEO 2	SPE 8	SDM 32	FFN 1	PEN 1	STR 128	NOV 0.5	CLI 0.5
E	ERY 4	ERY 2	ERY 1	ERY 0.5	ERY 0.25	ERY 0.12	SXT 2/38	STZ 256	PEN 0.5	STR 64	TYLT 20	NEG
F	OXY 8	OXY 4	OXY 2	OXY 1	OXY 0.5	OXY 0.25	SXT 1/19	STZ 128	PEN 0.25	STR 32	TYLT 10	POS
G	TET 8	TET 4	TET 2	TET 1	TET 0.5	TET 0.25	SXT 0.5/9.5	STZ 64	PEN 0.12	STR 16	TYLT 5	POS
H	AMOX 16	AMOX 8	AMOX 4	AMOX 2	AMOX 1	AMOX 0.5	AMOX 0.25	STZ 32	PEN 0.06	STR 8	TYLT 2.5	POS

Antimicrobics

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

*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 MIC 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)

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, semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMI 4	AMI 8	AMI 16	AMI 32	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AMP 16	AMP 32
B	AZI 0.25	AZI 0.5	AZI 1	AZI 2	AZI 4	FAZ 4	FAZ 8	FAZ 16	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76
C	XNL 0.25	XNL 0.5	XNL 1	XNL 2	XNL 4	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TAZ 16	TAZ 32	TAZ 64
D	CHL 4	CHL 8	CHL 16	CHL 32	CLA 1	CLA 2	CLA 4	CLA 8	DOX 2	DOX 4	DOX 8	DOX 16
E	ENRO 0.25	ENRO 0.5	ENRO 1	ENRO 2	GEN 1	GEN 2	GEN 4	GEN 8	IMI 1	IMI 2	IMI 4	IMI 8
F	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	OXA+ 4	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	ERY 8	POS
G	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	RIF 1	RIF 2	RIF 4	POS
H	TIC 8	TIC 16	TIC 32	TIC 64	TIM2 8/2	TIM2 16/2	TIM2 32/2	TIM2 64/2	TET 2	TET 4	TET 8	POS

Antimicrobics

AMI	Amikacin
AMP	Ampicillin
AZI	Azithromycin
CHL	Chloramphenicol
CLA	Clarithromycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
FAZ	Cefazolin
GEN	Gentamicin
IMI	Imipenem
OXA+	Oxacillin+2%NaCl
PEN	Penicillin
POS	Positive Control
RIF	Rifampin
SXT	Trimethoprim / Sulfamethoxazole
TAZ	Ceftazidime
TET	Tetracycline
TIC	Ticarcillin
TIM2	Ticarcillin / Clavulanic acid constant 2
XNL	Ceftiofur

*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 Vet AST Plate for Gram Positive and Gram Negatives

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

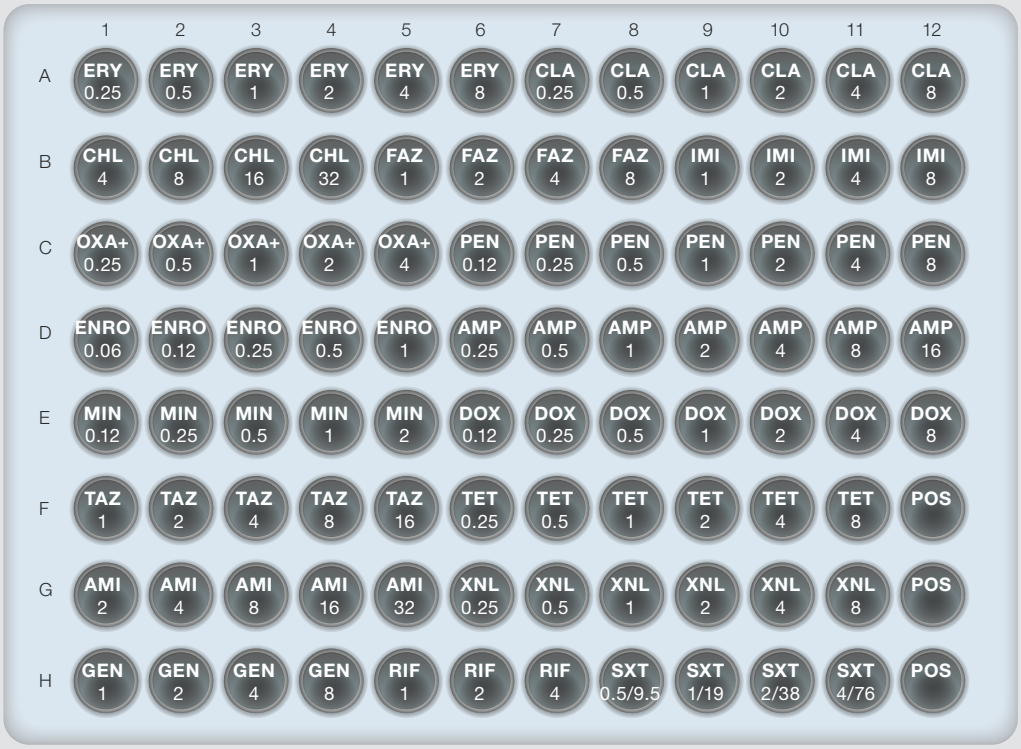
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

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

ATCC Licensed Derivative

Sensititre Urinary Two-Isolate 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

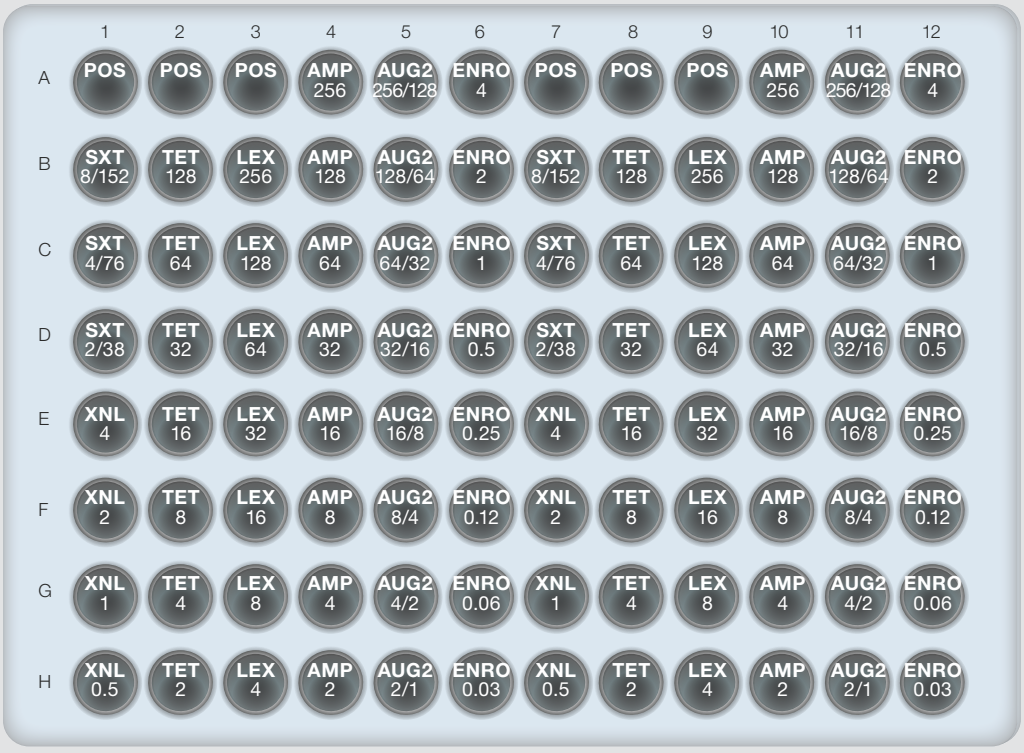
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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, semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

*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 Mastitis Two-Isolate MIC 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

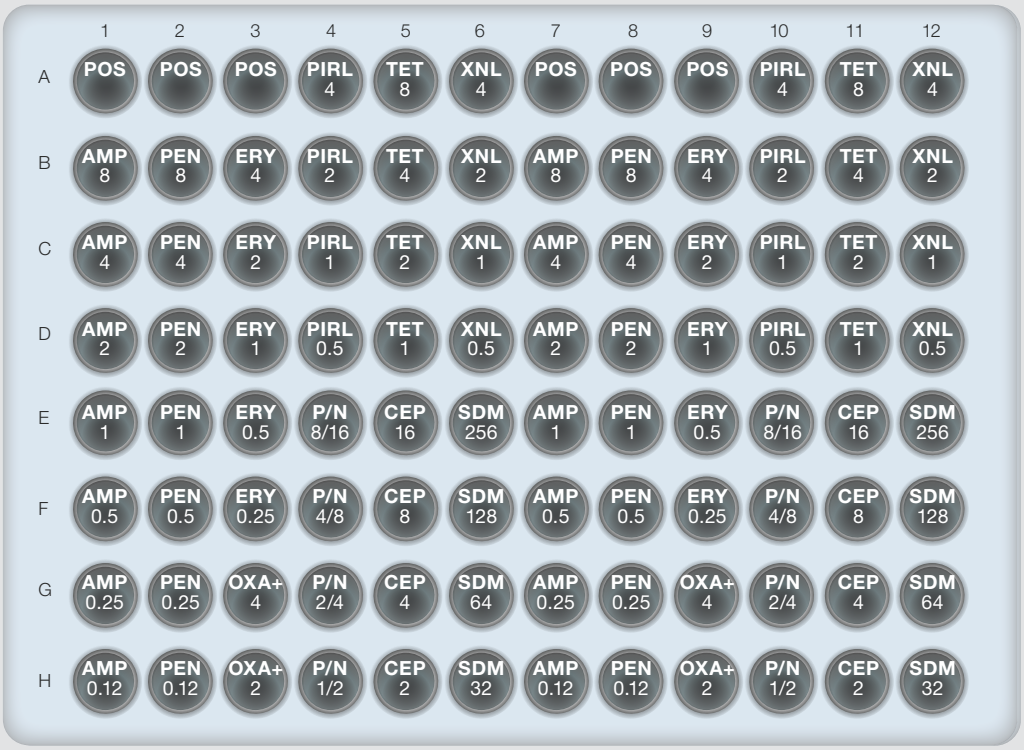
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours***

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



Antimicrobics

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

*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 Plate

Intended use	Read method
Perform accurate AST with this dual-isolate plate for breakpoint testing of topical compounds	**Manual and semi-automated** 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

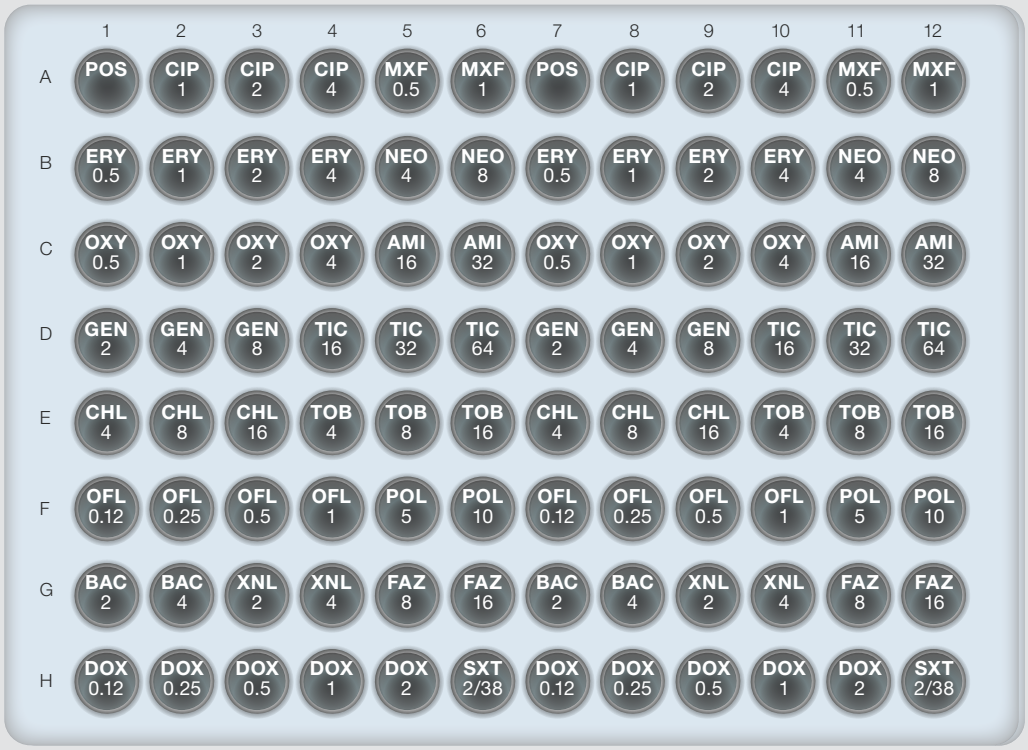
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™

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 34-36°C in a non-CO_2 incubator or Sensititre ARIS HiQ for 18-24 hours

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

ATCC Licensed Derivative

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 CDC
- US CDC Antibiotic Resistance Lab Network
- EU Monitoring System of Zoonoses

Surveillance standard plate formats

		EUROPE				NARMS					
		GRAM NEGATIVE	GRAM POSITIVE		CAMPYLO BACTER	GRAM NEGATIVE		GRAM POSITIVE		CAMPYLOBACTER	
	INSTRUMENTS	EUVSEC3	EUVENC	EUST2	EUCAMP3	CMV3AGNF	CMV5AGNF	CMV3AGPF	CMV4AGP	CMVCAMPY	CAMPY2
FLUORESCENT PLATES	AUTOREAD, SEMI-AUTOMATED AND MANUAL READ (ARIS HiQ, OptiRead, Vizion, manual viewer)					●	●	●			
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Vizion, Manual viewer, Manual read)	●	●	●	●				●	●	●
Jump to page ▶		71	72	73	74		75	77	78	79	80

Sensititre surveillance plates supporting One Health initiatives

The Sensititre System provides a Standardized Antimicrobial Resistance (AMR) surveillance tool to support public health and national reference laboratories initiatives towards One Health.*

The Sensititre System strictly follows and update its offering based on governance surveillance mandates such as One Health.

Committed to combatting AMR, the European Commission has implemented legislation on harmonised monitoring of AMR in zoonotic and commensal bacteria in food-producing animals and derived meat. In order to gain accurate, quantitative data on emerging resistance patterns new Sensititre surveillance plates were developed in collaboration with the European food and veterinary network to support the European surveillance testing program – see new plate formats on the following pages.

* World Health Organization, 24th August 2021, Departmental News: World leaders and experts call for significant reduction in the use of antimicrobial drugs in global food systems.

Sensititre EU Surveillance Salmonella/E. coli Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Salmonella* and *E. coli* isolates as part of EU surveillance program	**Manual and semi-automated** 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™
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 for 18 hours

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMP 32	AZI 64	AMI 128	GEN 16	TGC 8	TAZ 8	FOT 4	COL 16	NAL 64	TET 32	TMP 16	SMX 512
B	AMP 16	AZI 32	AMI 64	GEN 8	TGC 4	TAZ 4	FOT 2	COL 8	NAL 32	TET 16	TMP 8	SMX 256
C	AMP 8	AZI 16	AMI 32	GEN 4	TGC 2	TAZ 2	FOT 1	COL 4	NAL 16	TET 8	TMP 4	SMX 128
D	AMP 4	AZI 8	AMI 16	GEN 2	TGC 1	TAZ 1	FOT 0.5	COL 2	NAL 8	TET 4	TMP 2	SMX 64
E	AMP 2	AZI 4	AMI 8	GEN 1	TGC 0.5	TAZ 0.5	FOT 0.25	COL 1	NAL 4	TET 2	TMP 1	SMX 32
F	AMP 1	AZI 2	AMI 4	GEN 0.5	TGC 0.25	TAZ 0.25	CHL 8	CHL 16	CHL 32	CHL 64	TMP 0.5	SMX 16
G	MERO 0.03	MERO 0.06	MERO 0.12	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8	MERO 16	TMP 0.25	SMX 8
H	CIP 0.015	CIP 0.03	CIP 0.06	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	POS	POS

Antimicrobics

AMI	Amikacin
AMP	Ampicillin
AZI	Azithromycin
CHL	Chloramphenicol
CIP	Ciprofloxacin
COL	Colistin
FOT	Cefotaxime
GEN	Gentamicin
MERO	Meropenem
NAL	Nalidixic Acid
POS	Positive Control
SMX	Sulfamethoxazole
TAZ	Ceftazidime
TET	Tetracycline
TGC	Tigecycline
TMP	Trimethoprim

ATCC Licensed Derivative

Sensititre Sensititre EU Surveillance Enterococcus Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Enterococcus* isolates as part of EU surveillance program	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth with Lysed Horse Blood (CP112-10)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

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™
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 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 for 18-24 hours*

Read semi-automatically with Vizion or manually with Manual Viewbox

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

Antimicrobics

AMP	Ampicillin
CHL	Chloramphenicol
CIP	Ciprofloxacin
DAP	Daptomycin
ERY	Erythromycin
GEN	Gentamicin
LZD	Linezolid
POS	Positive control
SYN	Quinupristin/Dalfopristin
TEI	Teicoplanin
TET	Tetracycline
TGC	Tigecycline
VAN	Vancomycin

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

ATCC Licensed Derivative

Sensititre EU Surveillance Staphylococcus Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing *Staphylococcus* isolates as part of EU surveillance program	**Manual and semi-automated** 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

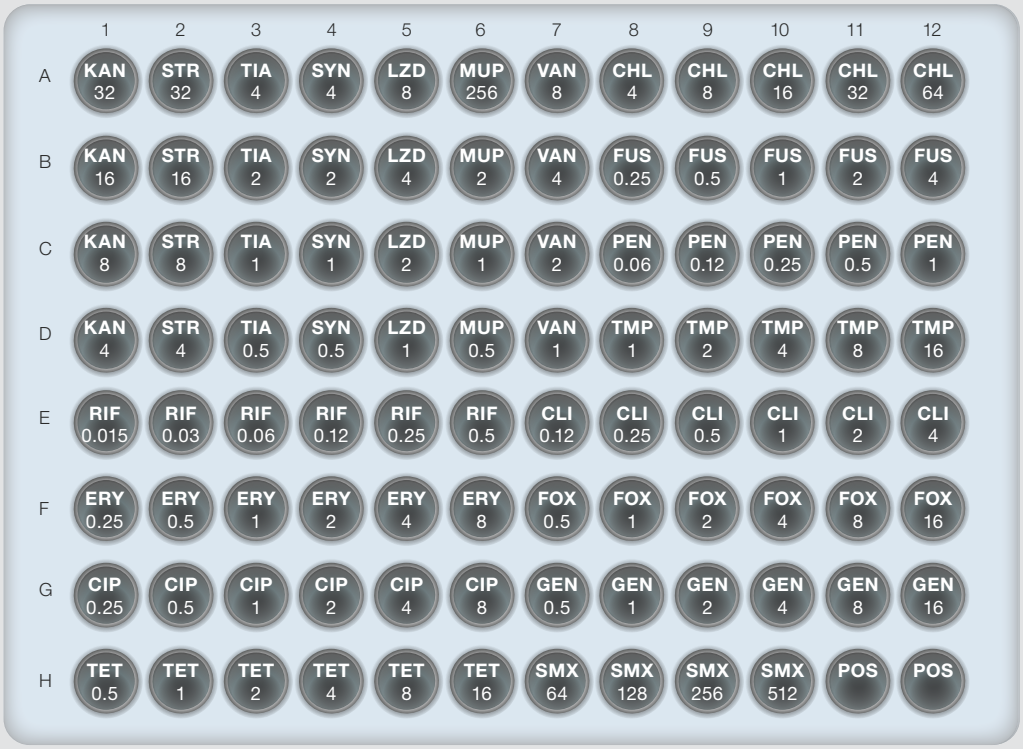
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™

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 for 18-24 hours*

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

FOX	Cefoxitin
CHL	Chloramphenicol
CIP	Ciprofloxacin
CLI	Clindamycin
ERY	Erythromycin
FUS	Fusidate
GEN	Gentamicin
KAN	Kanamycin
LZD	Linezolid
MUP	Mupirocin
PEN	Penicillin
POS	Positive Control
SYN	Quinupristin/dalfopristin
RIF	Rifampin
STR	Streptomycin
SMX	Sulfamethoxazole
TET	Tetracycline
TIA	Tiamulin
TMP	Trimethoprim
VAN	Vancomycin

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

ATCC Licensed Derivative

Sensititre EU Surveillance Plate for Campylobacter

Intended use	Read method
Antimicrobial susceptibility plate for testing Campylobacter isolates as part of EU surveillance program	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth with Lysed Horse Blood (CP112-10)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

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**

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	CHL 64	ERY 512	GEN 16	CIP 32	TET 64	ETP 4	CHL 64	ERY 512	GEN 16	CIP 32	TET 64	ETP 4
B	CHL 32	ERY 256	GEN 8	CIP 16	TET 32	ETP 2	CHL 32	ERY 256	GEN 8	CIP 16	TET 32	ETP 2
C	CHL 16	ERY 128	GEN 4	CIP 8	TET 16	ETP 1	CHL 16	ERY 128	GEN 4	CIP 8	TET 16	ETP 1
D	CHL 8	ERY 64	GEN 2	CIP 4	TET 8	ETP 0.5	CHL 8	ERY 64	GEN 2	CIP 4	TET 8	ETP 0.5
E	CHL 4	ERY 32	GEN 1	CIP 2	TET 4	ETP 0.25	CHL 4	ERY 32	GEN 1	CIP 2	TET 4	ETP 0.25
F	CHL 2	ERY 16	GEN 0.5	CIP 1	TET 2	ETP 0.12	CHL 2	ERY 16	GEN 0.5	CIP 1	TET 2	ETP 0.12
G	ERY 2	ERY 8	GEN 0.25	CIP 0.5	TET 1	POS	ERY 2	ERY 8	GEN 0.25	CIP 0.5	TET 1	POS
H	ERY 1	ERY 4	CIP 0.12	CIP 0.25	TET 0.5	POS	ERY 1	ERY 4	CIP 0.12	CIP 0.25	TET 0.5	POS

Antimicrobics

CHL	Chloramphenicol
CIP	Ciprofloxacin
ETP	Ertapenem
ERY	Erythromycin
GEN	Gentamicin
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 NARMS Gram Negative Plate CMV3AGNF

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 (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

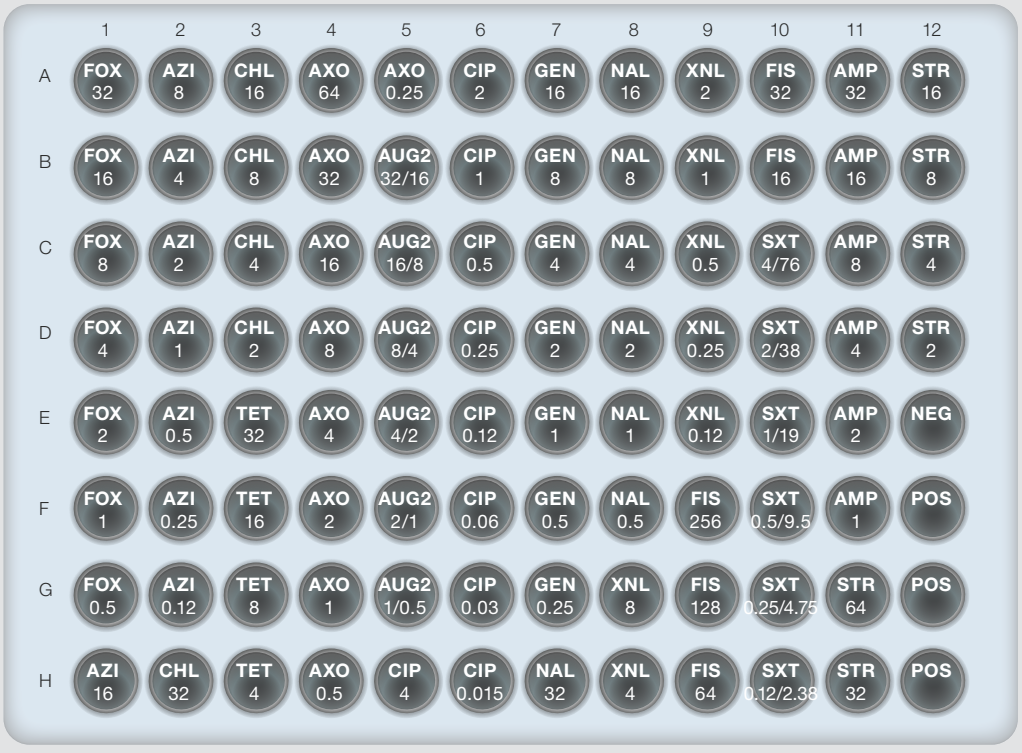
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus* 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 for 18 hours

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



Antimicrobics

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

ATCC Licensed Derivative

Sensititre NARMS Gram Negative Plate CMV5AGNF

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

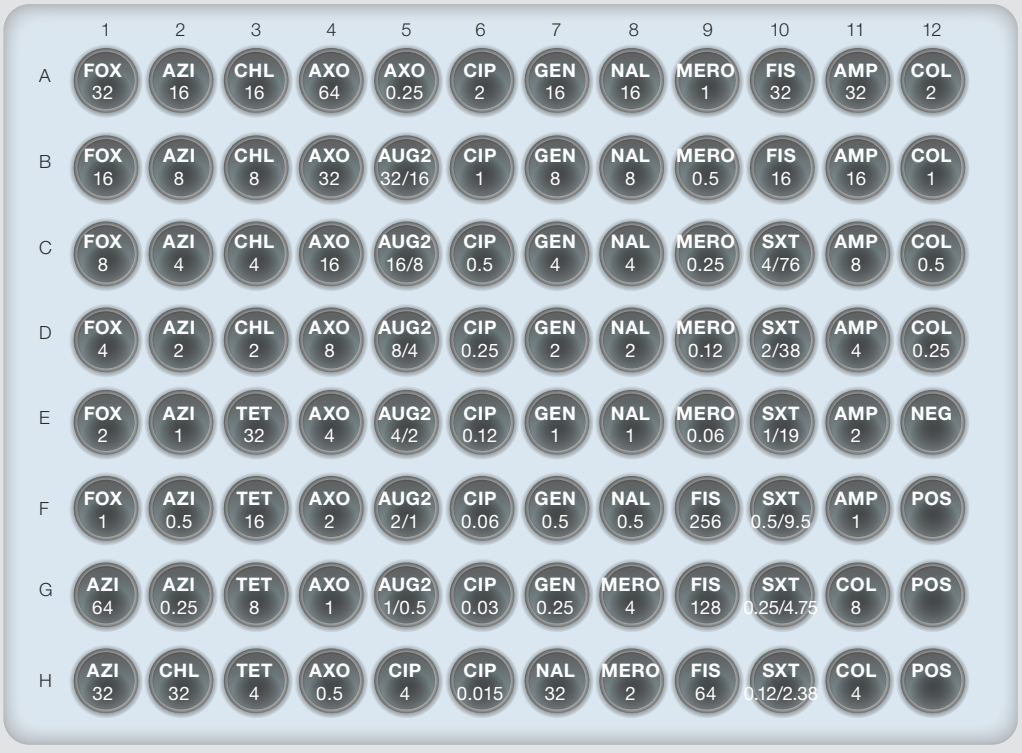
Culti-Loops product code	Organism description
R4607050	*Escherichia coli* ATCC® 25922™
R4601971	*Escherichia coli* ATCC® 35218™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
Additional QC strains used for product release	
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4607011	*Staphylococcus aureus*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

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

ATCC Licensed Derivative

Sensititre NARMS Gram Positive Plate CMV3AGPF

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

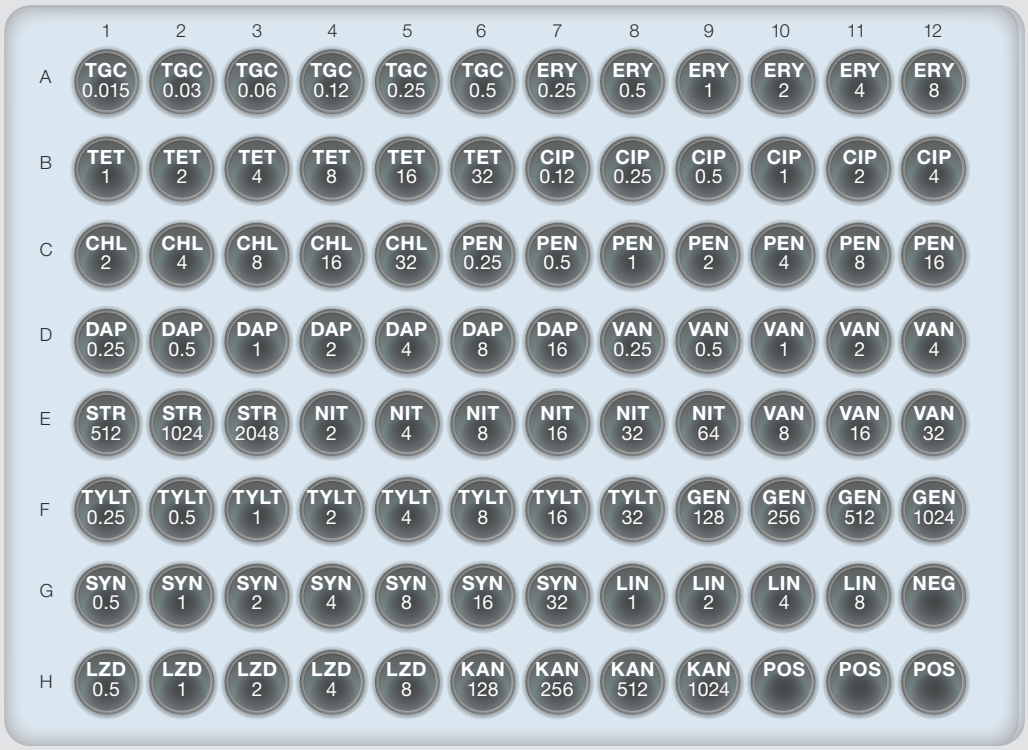
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4601996	*Enterococcus faecalis* ATCC® 51299™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas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

Read automatically with ARIS HiQ or OptiRead, semi-automatically with Vizion or manually with 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.

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Sensititre NARMS Gram Positive Plate CMV4AGP

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 and semi-automated** 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

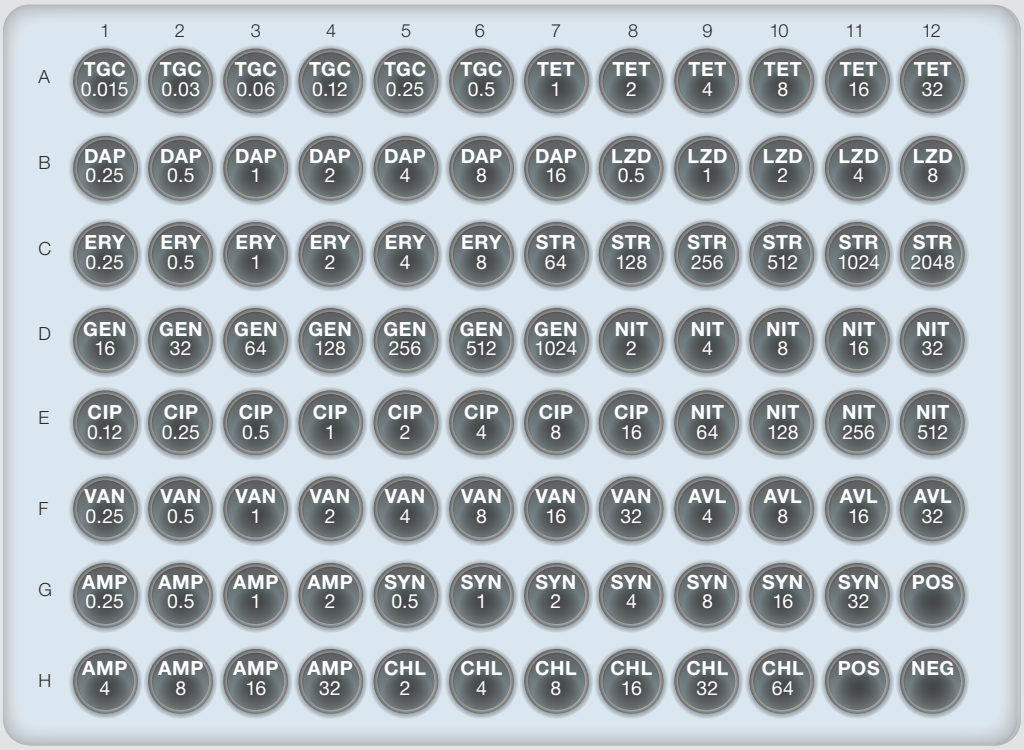
Culti-Loops product code	Organism description
R4607030	*Enterococcus faecalis* ATCC® 29212™
R4601996	*Enterococcus faecalis* ATCC® 51299™
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
Additional QC strains used for product release	
R4607050	*Escherichia coli* ATCC® 25922™
R4607060	*Pseudomonas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

Read semi-automatically with Vizion or manually with Manual Viewbox



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.

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Sensititre NARMS Campylobacter 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™

1. Put 3-5 colonies into Sensititre MHB 5 mL to reach a 0.5 McFarland Standard, mix 100 µL into Sensititre MHB w/ LHB
2. Innoculate 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 42°C for 24hrs or 36-37°C for 48hrs
4. Manually read with Sensititre Vizion or Sensititre Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	AZI 0.015	AZI 0.03	AZI 0.06	AZI 0.12	AZI 0.25	AZI 0.5	AZI 1	AZI 2	AZI 4	AZI 8	AZI 16	AZI 32
B	AZI 64	CIP 0.015	CIP 0.03	CIP 0.06	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	CIP 16
C	CIP 32	CIP 64	FFN 0.12	FFN 0.25	FFN 0.5	FFN 1	FFN 2	FFN 4	FFN 8	FFN 16	FFN 32	FFN 64
D	CLI 0.03	CLI 0.06	CLI 0.12	CLI 0.25	CLI 0.5	CLI 1	CLI 2	CLI 4	CLI 8	CLI 16	GEN 0.12	GEN 0.25
E	GEN 0.5	GEN 1	GEN 2	GEN 4	GEN 8	GEN 16	GEN 32	NAL 4	NAL 8	NAL 16	NAL 32	NAL 64
F	ERY 0.03	ERY 0.06	ERY 0.12	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	ERY 8	ERY 16	ERY 32	ERY 64
G	MERO 0.004	MERO 0.008	MERO 0.015	MERO 0.03	MERO 0.06	MERO 0.12	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8
H	MERO 16	TET 0.12	TET 0.25	TET 0.5	TET 1	TET 2	TET 4	TET 8	TET 16	TET 32	TET 64	POS

Antimicrobics

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

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Sensititre Campylobacter MIC Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing Campylobacter isolates as part of a surveillance program	**Manual and semi-automated** Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)
Broth type	**Inoculum preparation**
Sensititre Mueller Hinton Broth with Lysed Horse Blood (CP112-10)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)

Recommended routine QC strains

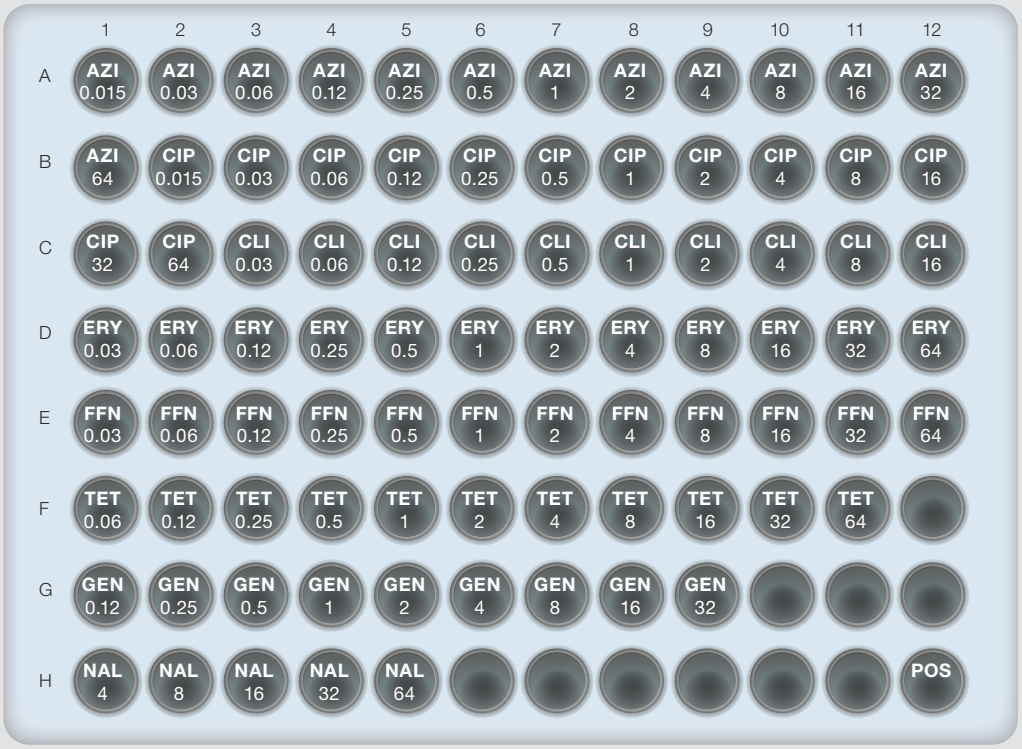
Culti-Loops product code	Organism description
R4609498	*Campylobacter jejuni* subsp. *jejuni* ATCC® 33560™
Additional QC strains used for product release	
R4607011	*Staphylococcus aureus* subsp. *aureus* ATCC® 29213™
R4607060	*Pseudomonas aeruginosa* ATCC® 27853™
R4607050	*Escherichia coli* ATCC® 25922™

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 50 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**

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

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

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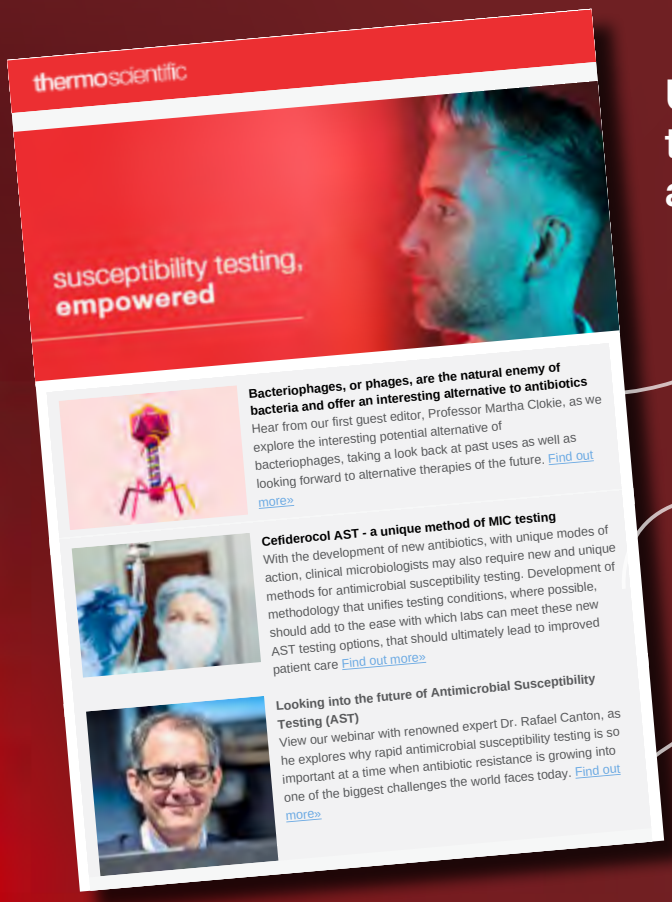
Empowering the people who dedicate their lives to microbiology.

Want easy access to topics relating to antimicrobial susceptibility testing? From topics in the news, to emerging technology, pushing AST stewardship to the next level, our AST newsletter offers you the opportunity to stay at the forefront of everything AST.



Up and coming trends in the fight against AMR

The latest on antimicrobials

Hear from your peers

AST news direct to your inbox

Sign-up to our quarterly AST newsletter and let us bring the news to you:
www.thermofisher.com/ASTempowered

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.

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.

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.

Thermo Fisher Scientific is equipped to deliver a variety of global services to keep you up and running with its technical scientists and experts in microbiology.

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 ANZ Thermo Fisher Scientific Microbiology representative or visit us at thermofisher.com/AST

Preventive maintenance | Corrective services | Continued application assistance | Tailored solutions

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 and especially in ANZ, 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

ANZ local Technical Support contact details:

Australia
MicroTechSupport@thermofisher.com
1300 735 292

New Zealand
MicroTechSupport@thermofisher.com
1300 735 292

Pacific Islands
MicroTechSupport@thermofisher.com
1300 735 292

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
- Enable quick and safe preparation of ATCCR and NCTC cultures for QC testing
- Are ready-to-uyse bacteriological loops containing gel-stabilised micro-organisms
- Each loop is individually packaged in a foil pouch in a pack of five loops
- Most comprehensive range of microorganism strains recommended by CLSI and EUCAST

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

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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 – Clinical

Code	Antimicrobic	Gram negative First line						Gram negative Second line							Non-fermenter		Urines	Gram positive						Fastidious		Anaer-obes		Yeast					Mycobacteria					
		GN3F	GN2F	GN4F	GN6F	GN7F	EUGNF	MDRGNX2F	GNX2F	GNX3F	GNX4F	EUMDRXXF	DXMGN	EURGNCOL	NF	GNUR3F	ESB1F	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	GPN3F	EUENCF	STP6F	HPB1	ANO2B	ANAER03	YO2IVD	YO3IVD	YO8	AUSNMRC1	YO10	MYCOTBI	RAPMYCO2	RAPMYCOI	SLOMYCO2	SLOMYCOI	NOCARDIA
FC	5-Flucytosine																											✓	✓	✓	✓	✓						
AMI	Amikacin	✓	✓	✓	✓	✓	✓	No	✓	✓		✓	✓		✓																		✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	No		✓	✓		✓	✓		✓	✓																						
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														✓			No	✓	✓				✓	✓	✓	✓										
CIP	Ciprofloxacin	✓	✓	✓	✓	✓	✓		✓	✓			✓		✓	✓	✓		✓	✓		✓	✓											✓	✓	✓	✓	✓
CLA	Clarithromycin																								✓									✓	✓	✓	✓	✓
CLI	Clindamycin																	✓	✓	No	✓	✓		✓		✓	✓											
CFZ	Clofazimine																																	✓		✓		
COL	Colistin*						No	✓	✓	✓	✓	✓	✓	✓																								
CYC	Cycloserine																																✓					
DAL	Dalbavancin																	✓																				

Code	Antimicrobic	Gram negative First line						Gram negative Second line							Non-fermenter		Urines	Gram positive						Fastidious		Anaerobes		Yeast					Mycobacteria					
		GN3F	GN2F	GN4F	GN6F	GN7F	EUGNF	MDRGNX2F	GNX2F	GNX3F	GNX4F	EUMDRXXF	DKMGN	EURGNCOL	NF	GNUR3F	ESB1F	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	GPN3F	EUENCF	STP6F	HPB1	AN02B	ANAER03	YO2IVD	YO3IVD	YO8	AUSNMRC1	YO10	MYCOTBI	RAPMYCO2	RAPMYCOI	SLOMYCO2	SLOMYCOI	NOCARDIA
DAP	Daptomycin																		✓	✓	✓	✓		✓														
DLX	Delafloxacin							✓																													
DOR	Doripenem			✓	✓	✓	No		✓	✓																											
DOX	Doxycycline						No		✓	✓																							✓	✓	✓	✓	✓
DT1,2	D-Test																	✓	✓	✓	✓																
ERV	Eravacycline							✓																													
ERY	Erythromycin																	✓	✓	✓	✓	✓		✓	✓		✓										
ETP	Ertapenem	✓		✓	✓	✓	✓		✓				✓											✓													
EMB	Ethambutol																															✓			✓	
ETH	Ethionamide																															✓			✓	
FZ	Fluconazole																											✓	✓	✓	✓	✓					
FOS+	Fosfomycin							✓				✓																									
FUS	Fusidate																				✓															
GEN	Gentamicin	✓	✓	✓	✓	✓	✓		✓	✓			✓		✓	✓	✓		✓	✓	✓	✓	✓														
IMI	Imipenem		✓	✓	✓	✓	No	✓	✓	✓		✓	✓		✓		✓						✓		✓	✓	✓						✓	✓			✓
IMR	Imipenem/relebactam							✓				✓																									
INH	Isoniazid																															✓			✓	
IZ	Itraconazole																											✓	✓	✓	✓	✓					
KAN	Kanamycin																															✓				
KZ	Ketoconazole																													✓						
LEVO	Levofloxacin			✓	✓	✓	✓	No	✓	✓					✓				✓	✓	✓	✓	✓	✓	✓												
LZD	Linezolid																	✓	✓	✓	✓	✓	✓	✓									✓	✓	✓	✓	✓
LOM	Lomefloxacin														✓																						
MERO	Meropenem	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓							✓	✓	✓											
MEV	Meropenem/vaborbactam							✓				✓																									
MRD	Metronidazole																									✓	✓										
MEZ	Mezlocillin																									✓											
MF	Micafungin																												✓		✓	✓					
MIN	Minocycline			✓	✓	✓	No		✓	✓																								✓	✓		✓
MXF	Moxifloxacin																		✓	✓	✓			✓			✓						✓	✓	✓	✓	✓	✓
MUP	Mupirocin																				✓																
NIT	Nitrofurantoin		✓	✓	✓	✓	✓									✓			✓	✓			✓														
NOR	Norfloxacin																				✓		✓														
OFL	Ofloxacin																															✓				
OMC	Omadacycline							✓																													
ORI	Oritavancin																	✓																		
OXA+	Oxacillin + 2% NaCl																	✓	✓	✓		✓														
PAS	Para-aminosalicylic acid																															✓				
PEN	Penicillin																		✓	✓		✓		✓	✓	✓	✓										
PIP	Piperacillin		✓	✓											✓											✓	✓										
P/T4	Piperacillin/Tazobactam	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓									✓	✓										
PLZ	Plazomicin							✓																													
POL	Polymixin B*						No		✓	✓																											
PZ	Posaconazole																													✓	✓	✓					
SYN	Quinupristin/dalfopristin																		✓			✓	✓														
RFB	Rifabutin																															✓			✓	✓	
RIF	Rifampin																		✓	✓	✓	✓										✓			✓	✓	
SPA	Sparfloxacin																								✓												
STR	Streptomycin																		✓	✓		✓	✓									✓			✓	✓	
FIS	Sulfisoxazole														✓																						
TZD	Tedizolid																	✓																			
TEI	Teicoplanin																				✓		✓														
TLV	Telavancin																	✓			No	✓															
TLC	Telavancin w/ Tween mimic																			No																	

Code	Antimicrobic	Gram negative First line						Gram negative Second line							Non-fermenter		Urines	Gram positive						Fastidious		Anaer-obes		Yeast					Mycobacteria					
		GN3F	GN2F	GN4F	GN6F	GN7F	EUGNF	MDRGNX2F	GNX2F	GNX3F	GNX4F	EUMDRXXF	DKMGN	EURGNCOL	NF	GNUR3F	ESB1F	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	GPN3F	EUENCF	STP6F	HPB1	AN02B	ANAER03	Y02IVD	Y03IVD	Y08	AUSNMRC1	Y010	MYCOTBI	RAPMYCO2	RAPMYCOI	SLOMYCO2	SLOMYCOI	NOCARDIA
TRM	Temocillin																																					
TET	Tetracycline	✓		✓	✓	✓									✓				✓	✓	✓	✓		✓	✓	✓	✓											
TIC	Ticarcillin						✓								✓																							
TIM2	Ticarcillin/Clavulanic Acid	✓	✓	✓			No		✓	✓					✓																							
TGC	Tigecycline	✓		✓	✓	✓	✓		✓	✓		✓	✓						✓	✓			✓	✓										✓	✓			
TOB	Tobramycin	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓		✓						✓													✓	✓			✓
TMP	Trimethoprim																					✓																
SXT	Trimethoprim/Sulfamethoxazole	✓	✓	✓	✓	✓	✓		✓	✓			✓		✓	✓			✓	✓	✓	✓		✓	✓									✓	✓	✓	✓	✓
VAN	Vancomycin																	✓	✓	✓	✓	✓	✓	✓			✓											
VOR	Voriconazole																											✓	✓	✓	✓	✓						
NAL	Nalidixic Acid						✓																															
LEX	Cephalexin						✓																															
EVR	Eravacycline											✓																										
TLA	Telavancin w/ Tween mimic																			✓	✓	✓																
ISA	Isavuconazole																														✓							
GAT	Gatifloxacin		✓																			✓																

Thermo Scientific Sensititre Standard Formularies – Veterinary

Code	Anti-microbic	Companion				Porcine	Bovine/porcine		Avian	Equine		Urine (all)	Bovine (masti-tis)	Topical (all)
		Gram negative	Gram positive		Gram negative/positive									
		COMPGN1F	COMPGP1F	COMPAN1F	COMPAN2F	AUSMUPIG	BOP06F	BOP07F	AVIAN1F	EQUIN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
AMI	Amikacin	✓	✓	✓	✓					✓	✓			✓
AMOX	Amoxicillin								✓					
AUG2	Amoxicillin/Clavulanic Acid 2:1	✓	✓	✓	✓							✓		
AMP	Ampicillin	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
APR	Apramycin					✓								
AZI	Azithromycin									✓				
BAC	Bacitracin													✓
FAZ	Cefazolin	✓	✓		✓					✓	✓			✓
FEP	Cefepime													
FOT	Cefotaxime													
FOV	Cefovecin	✓	✓	✓	✓									
FOX	Cefoxitin			✓	✓	✓								
POD	Cefpodoxime	✓	✓	✓	✓									
TAZ	Ceftazidime	✓								✓	✓			
XNL	Ceftiofur			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEX	Cephalexin	✓										✓		
CEP	Cephalothin		✓		✓								✓	
CHL	Chloramphenicol	✓	✓	✓	✓					✓	✓			✓
CTET	Chlortetracycline						✓							
CIP	Ciprofloxacin					✓								✓
CLA	Clarithromycin									✓	✓			
CLI	Clindamycin		✓	✓	✓		✓	✓	✓					
COL	Colistin					✓								
DANO	Danofloxacin						✓	✓						
DOX	Doxycycline	✓	✓	✓	✓					✓	✓			✓
ENRO	Enrofloxacin	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		
ERY	Erythromycin		✓	✓	✓	✓			✓	✓	✓		✓	✓
FFN	Florfenicol					✓	✓	✓	✓					
GAM	Gamithromycin							✓						
GEN	Gentamicin	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓
IMI	Imipenem	✓	✓	✓	✓					✓	✓			
LIN	Lincomycin					✓								
MAR	Marbofloxacin	✓	✓	✓	✓									
MIN	Minocycline		✓								✓			
MXF	Moxifloxacin													✓

Code	Anti-microbic	Companion				Porcine	Bovine/porcine		Avian	Equine		Urine (all)	Bovine (masti-tis)	Topical (all)
		Gram negative	Gram positive		Gram negative/positive									
		COMPGN1F	COMPGP1F	COMPAN1F	COMPAN2F	AUSMUPIG	BOP06F	BOP07F	AVIAN1F	EQUIN1F	EQUIN2F	CMV1BURF	CMV1AMAF	JOEYE2
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	Pirlamycin												✓	
POL	Polymixin B*													✓
PRA	Pradofloxacin	✓	✓											
RIF	Rifampin		✓	✓	✓					✓	✓			
SPE	Spectinomycin					✓	✓	✓	✓					
STR	Streptomycin								✓					
SDM	Sulphadimethoxine						✓	✓	✓				✓	
STZ	Sulphathiazole								✓					
TET	Tetracycline	✓	✓			✓		✓	✓	✓	✓	✓	✓	
TIA	Tiamulin					✓	✓	✓						
TIC	Ticarcillin			✓	✓					✓				✓
TIM2	Ticarcillin/Clavulanic Acid			✓	✓					✓				
TIP	Tildipirosin							✓						
TIL	Tilmicosin					✓	✓	✓						
TOB	Tobramycin													✓
SXT	Trimethoprim/Sulfamethoxazole	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
TUL	Tulathromycin					✓	✓	✓						
TYLT	Tylosin Tartrate						✓	✓	✓					
VAN	Vancomycin		✓											

Thermo Scientific Sensititre Standard Formularies – Surveillance

		Europe				NARMS				
		Gram negative	Gram positive		Campylobacter	Gram negative		Gram positive		Campylobacter
Code	Antimicrobic	EUVSEC3	EUVENC	EUST2	EUCAMP3	CMV3AGNF	CMV5AGNF	CMV3AGPF	CMV4AGP	CAMPY2
AMI	Amikacin	✓								
AUG2	Amoxicillin/Clavulanic Acid 2:1					✓	✓			
AMP	Ampicillin	✓	✓			✓	✓		✓	
AVL	Avilamycin								✓	
AZI	Azithromycin	✓				✓	✓			✓
FEP	Cefepime									
FOT	Cefotaxime	✓								
F/C	Cefotaxime/Clavulanic acid									
FOX	Cefoxitin			✓		✓	✓			
TAZ	Ceftazidime	✓								
T/C	Ceftazidime/Clavulanic acid									
AXO	Ceftriaxone					✓	✓			
CHL	Chloramphenicol	✓	✓	✓	✓	✓	✓	✓	✓	
CIP	Ciprofloxacin	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLI	Clindamycin			✓						✓
COL	Colistin	✓					✓			
DAP	Daptomycin		✓					✓	✓	
ETP	Ertapenem				✓					
ERY	Erythromycin		✓	✓	✓			✓	✓	✓
FFN	Florfenicol									✓
FUS	Fusidate			✓						
GEN	Gentamicin	✓	✓	✓	✓	✓	✓	✓	✓	✓
IMI	Imipenem									
KAN	Kanamycin			✓				✓		
LZD	Linezolid		✓	✓				✓	✓	
LIN	Linocomycin							✓		
MERO	Meropenem	✓					✓			
MUP	Mupirocin			✓						
NAL	Nalidixic Acid	✓				✓	✓			✓
NIT	Nitrofurantoin							✓	✓	
PEN	Penicillin			✓				✓		
SYN	Quinupristin/Dalfopristin		✓	✓				✓	✓	
RIF	Rifampin			✓						
STR	Streptomycin			✓		✓		✓	✓	
SMX	Sulfamethoxazole	✓		✓						
FIS	Sulfisoxazole					✓	✓			
TEI	Teicoplanin		✓							
TRM	Temocillin									
TET	Tetracycline	✓	✓	✓	✓	✓	✓	✓	✓	✓
TIA	Tiamulin			✓						
TGC	Tigecycline	✓	✓					✓	✓	
TMP	Trimethoprim	✓		✓						
SXT	Trimethoprim/Sulfamethoxazole					✓	✓			
TYLT	Tylosin tartrate							✓		
VAN	Vancomycin		✓	✓				✓	✓	
XNL	Ceftiofur					✓				

**Enterobacteriaceae*, *Acinetobacter lwoffii, Streptococcus* species and *S.aureus* (MSSA) only. **Enterococcus testing only. ****Staphylococcus aureus* testing only. *****Staphylococcus* spp. testing only.
Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.

Ordering information

Description	Quantity	Product No
Sensititre Instruments		
Nephelometer	Each	V3011
Sensititre AIM Instrument	Each	V3020
Electronic Multichannel Pipette	Each	V4009
ARIS HiQ Instrument	Each	V4000
Vizion Instrument	Each	V2021
OptiRead Instrument	Each	V3030
Manual Viewbox	Each	V4007
Electronic Multichannel Pipette	Each	V4009
SWIN Computer fully loaded	Each	SW4000GBL
SWIN Software Epidemiology Module	Each	SW1202
Sensititre Broths		
Demineralized Water	5 mL/box of 100	T3339
HTM (Haemophilus Test Medium) Broth	11 mL/box of 10	T3470
Middlebrook 7H9 with OADC	11 mL/box of 10	T3441
Mueller-Hinton Broth with Lysed Horseblood	11 mL/box of 10	CP114-10
	11 mL/box of 10	CP112-10
Mueller-Hinton Broth with OADC	11 mL/box of 10	T8006
Mueller-Hinton Broth with TES	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
Veterinary Fastidious 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
0.9 McFarland Standard	Each	E1039
Perforated seals for testing fastidious organisms	10/pack	G522E
Seals for AST plates	10/pack	G520N
Doseheads	100/box	E3010
Pipetting Trough	50 mL/box of 200	E1032
Pipette Tips	10x96 box	E4109

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LT2379B
July 2024

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