

thermo scientific



Thermo Scientific Sensititre System

for antimicrobial susceptibility testing

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

¹World 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 equivalent¹ accuracy of broth microdilution combined with the time-saving benefits of automation to optimize patient care, support antimicrobial stewardship, and improve lab efficiency.

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

Select Plate



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



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

Inoculum



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

Inoculate



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



Thermo Scientific™ Sensititre AIM™ Automated Inoculation Delivery System—automatically doses Sensititre plates eliminating skipped wells and costly repeat tests.
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¹ Gram negative anaerobe susceptibility testing in clinical isolates using Sensititre and Etest methods. C. Hughes, C. Ashurst-Smith, J.K. Ferguson. Pathology Volume 50, Issue 4, June 2018.



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

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

Incubate



Sensititre ARIS HiQ System—individually incubates 100 MIC, breakpoint or identification plates, ensuring optimal growth conditions and eliminating repeat tests.

► See page 6

Read



Sensititre ARIS HiQ System—automatically incubates and reads up to 100 Sensititre ID and AST plates to improve lab efficiency without sacrificing accuracy.

► See page 6



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

► See page 9



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

► See page 8

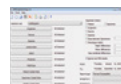


Thermo Scientific™ Sensititre™ Manual Viewer—perform simple visual reads of your 96-well microtitre plates with our mirrored viewbox.

Interpret



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



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

* The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information. Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.

Thermo Scientific Sensititre ARIS HiQ System

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

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

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





Vizion Digital MIC Viewing System

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

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

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



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

Sensititre AIM Automated Inoculation Delivery System

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

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

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



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

OptiRead Automated Fluorometric Plate Reading System

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

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

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



Nephelometer

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

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

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

The value of accurate MICs supports future stewardship

Health care practitioners have known for some time that delivering continuous improvements to antibiotic stewardship efforts relies on striving to select the most appropriate antibiotic, at the right dose, followed by pathogen-specific antibiotic therapy with an appropriate duration¹.

Broth microdilution is the reference method for antimicrobial susceptibility testing², 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 alone³. 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 doses⁴, 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 algorithms⁵. 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.

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

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

1 Antimicrobial Stewardship. Shira Doron, MD and Lisa E. Davidson, MD. Mayo Clin Proc. 2011 Nov; 86(11): 1113–1123.

2 Reading and understanding an antibiogram. Tascini, C. *et al.* Italian Journal of Medicine 2016; volume 10:289-300

3 Innovative and rapid antimicrobial susceptibility testing systems. van Belkum, A., Burnham, CA.D., Rossen, J.W.A. *et al.* Nat Rev Microbiol 18, 299–311 (2020).

4 Pharmacodynamics of intravenous ciprofloxacin in seriously ill patients. Forrest A, *et al.* Antimicrob Agents Chemother. 1993;5:1073–81.

5 MIC-based dose adjustment: facts and fables. Mouton JW, Muller AE, Canton R, Giske CG, Kahlmeter G, Turnidge J. J Antimicrob Chemother. 2018 Mar 1;73(3):564-568



Custom capabilities

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

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

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

Greater flexibility

Over 300 antimicrobials available for clinical, veterinary and surveillance applications; available as frozen or dried formats

Performance

Superior reproducibility for accurate results, first time; consolidate testing onto one format to reduce unnecessary testing protocols, off line testing and associated costs

Custom design

Easily adapt formulary requirements and prescription protocols to monitor local resistance

Scalable

Choose from a variety of flexible instrumentation options to streamline your workflow and meet your specific workload and budget requirements



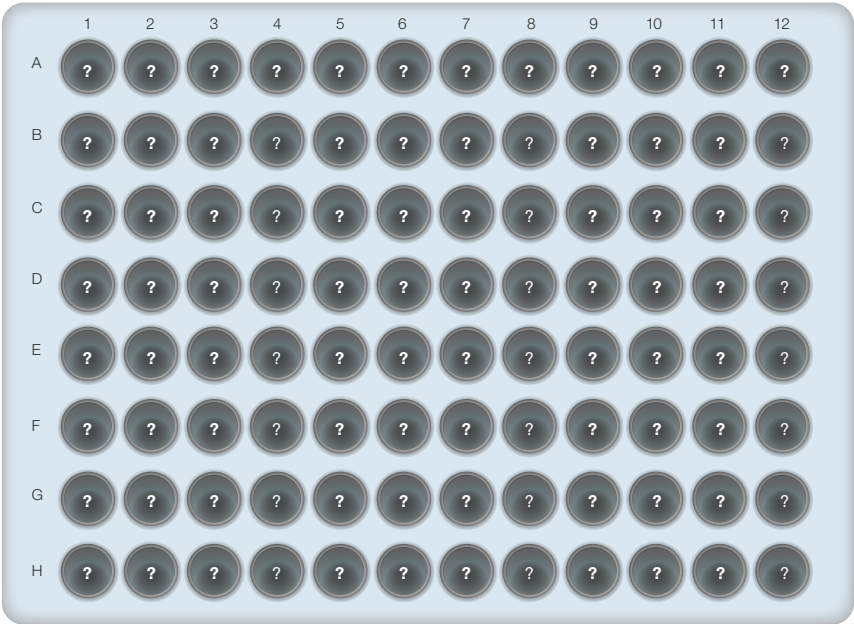
Join the global initiative to combat antimicrobial resistance through the effective use of antimicrobials in children, young people, adults and animals by assisting your clinical colleagues in delivering accurate and actionable MIC results tailored to your patient or animal population.

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.



Choose any combination from over 300 antimicrobials





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

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

With this in mind, we are dedicated in our collaboration with pharmaceutical companies developing new antimicrobials and expediting their incorporation into our gold standard-equivalent¹ Sensititre plate portfolio. If you require early access to a broth microdilution (BMD) MIC test, Sensititre is the only platform to offer a solution.

The latest antimicrobials include:

- Cefiderocol
- Imipenem/relebactam
- Meropenem/vaborbactam

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.

MDRO FORMATS	MDRGN2F	MDRGNX2F	EUMDROXF	CUSTOM CAPABILITIES
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* 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.
Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.

“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 baumannii* or pan beta-lactam-resistant *Pseudomonas aeruginosa* are only one admission away from seeing their first case².”

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 Health³ by enabling their compliance to government surveillance mandates.

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 pages 60-66.



³ 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.

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

Clinical standard plate formats

		GRAM NEGATIVE First line				GRAM NEGATIVE Second line						NON-FERMENTERS		URINES		ESBLS					
	INSTRUMENTS	USE AND METHODOLOGY	GN4F	GN6F	GN7F	EUGNF	MDRGN2F	MDRGNX2F	GNX3F	GNX4F	EUMDR0F	EUMDR0XF	DKMGN	EURGNCOL	NF	EUX2NF	GNUR2F	GNUR3F	ESB1F		
FLUORESCENT PLATES	AUTOREAD (ARIS HiQ, OptiRead, manual viewer, Vizion)	IVD-FDA (CLSI)	●	●	●		●								●		●	●	●		
		RUO (CLSI)						●	●	●											
		IVD-CE (CLSI)	●	●																●	
		IVD-CE (EUCAST)				●					●	●					●	●			
NON-FLUORESCENT PLATES	SEMI-AUTOMATED AND MANUAL READ (Manual viewer, Vizion)	IVD-FDA (CLSI)																			
		RUO (CLSI)																			
		IVD-CE (CLSI)																			
		IVD-CE (EUCAST)											●	●							
Jump to page ►			18	19	20	21	22	23	24				26		27	28		29			

	GRAM POSITIVE						FASTIDIOUS			ANAEROBES		YEAST					MYCOBACTERIA						
	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	EUENCF	FRISTENT	STP6F	FDANDSF	HPB1	AN02B	ANAER03	Y02IVD	Y03IVD	Y08	Y09	Y010	MYCOTB	MYCOTBI	RAPMVC02	RAPMVC0I	SLOMVC02	SLOMVC0I	NOCARDIA
	●	●	●				●	●															
	●	●																					
				●	●																		
									●			●	●										
										●				●	●		●		●		●		●
									●		●					●	●		●			●	
						●																	
	30			31	32		33	34	35	36	37		39			40	41	42	43	44	45	46	47

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Sensititre Gram Negative GN7F Plate

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

CLSI recommended routine QC strains

Culti-Loops product code	Organism description
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Additional QC strains used for product release

R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMI 8	TGC 1	FEP 2	DOR 0.5	ETP 0.25	IMI 1	MERO 0.5	FAZ 1	TAZ 1	AZT 1	LEVO 0.5	AXO 0.5
B	AMI 16	TGC 2	FEP 4	DOR 1	ETP 0.5	IMI 2	MERO 1	FAZ 2	TAZ 2	AZT 2	LEVO 1	AXO 1
C	AMI 32	TGC 4	FEP 8	DOR 2	ETP 1	IMI 4	MERO 2	FAZ 4	TAZ 4	AZT 4	LEVO 2	AXO 2
D	P/T4 8/4	TGC 8	FEP 16	DOR 4	ETP 2	IMI 8	MERO 4	FAZ 8	TAZ 8	AZT 8	LEVO 4	AXO 4
E	P/T4 16/4	C/T 2/4	CIP 0.25	MIN 1	ETP 4	CZA 2/4	MERO 8	FAZ 16	TAZ 16	AZT 16	LEVO 8	AXO 8
F	P/T4 32/4	C/T 4/4	CIP 0.5	MIN 2	ETP 8	CZA 4/4	GEN 2	TOB 2	A/S2 4/2	AMP 8	TET 4	AXO 16
G	P/T4 64/4	C/T 8/4	CIP 1	MIN 4	NIT 32	CZA 8/4	GEN 4	TOB 4	A/S2 8/4	AMP 16	TET 8	AXO 32
H	SXT 2/38	C/T 16/4	CIP 2	MIN 8	NIT 64	CZA 16/4	GEN 8	TOB 8	A/S2 16/8	POS	POS	POS

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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative EUGNF Plate

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

EUCAST recommended routine QC strains

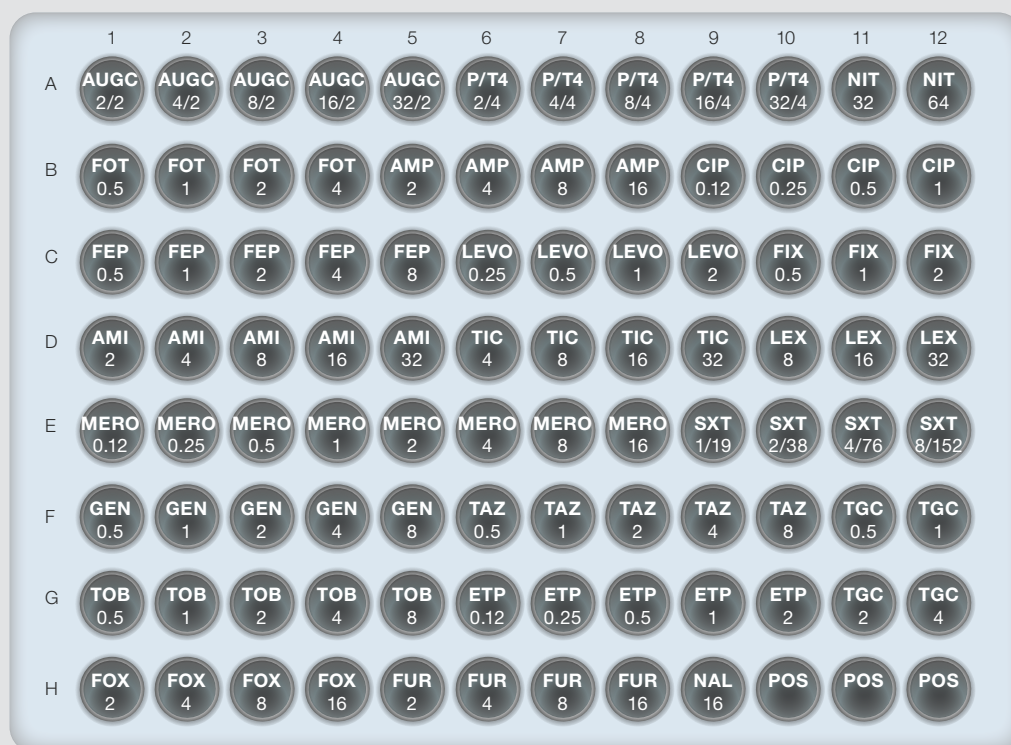
Culti-Loops product code	Organism description
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus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

Put 3-5 colonies into H₂O 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-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
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.

[#]The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative MDRGN2F Plate

including the latest antimicrobials cefiderocol and imipenem/relebactam

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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4609384	<i>Klebsiella pneumoniae</i> ATCC® BAA-1705™
R4601316	<i>Klebsiella pneumoniae</i> ATCC® BAA-2814™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Additional QC strains used for product release

R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	MEV 0.008/8	MEV 0.015/8	MEV 0.03/8	MEV 0.06/8	MEV 0.12/8	MEV 0.25/8	MEV 0.5/8	MEV 1/8	MEV 2/8	MEV 4/8	MEV 8/8	MEV 16/8
B	OMC 0.12	OMC 0.25	OMC 0.5	OMC 1	OMC 2	OMC 4	OMC 8	LEVO 0.25	LEVO 0.5	LEVO 1	LEVO 2	LEVO 4
C	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8	PLZ 0.12	PLZ 0.25	PLZ 0.5	PLZ 1	PLZ 2	PLZ 4
D	IMR 0.03/4	IMR 0.06/4	IMR 0.12/4	IMR 0.25/4	IMR 0.5/4	IMR 1/4	IMR 2/4	IMR 4/4	IMR 8/4	IMR 16/4	CZA 0.12/4	CZA 0.25/4
E	CZA 0.5/4	CZA 1/4	CZA 2/4	CZA 4/4	CZA 8/4	CZA 16/4	CZA 32/4	ERV 0.03	ERV 0.06	ERV 0.12	ERV 0.25	ERV 0.5
F	ERV 1	ERV 2	ERV 4	ERV 8	IMI 2	IMI 4	IMI 8	IMI 16	DLX 0.12	DLX 0.25	DLX 0.5	DLX 1
G	FDC 0.03	FDC 0.06	FDC 0.12	FDC 0.25	FDC 0.5	FDC 1	FDC 2	FDC 4	FDC 8	FDC 16	FDC 32	POS
H	C/T 0.06/4	C/T 0.12/4	C/T 0.25/4	C/T 0.5/4	C/T 1/4	C/T 2/4	C/T 4/4	C/T 8/4	AMI 16	AMI 32	POS	POS

Antimicrobics

AMI	Amikacin
FDC	Cefiderocol
CZA	Ceftazidime/Avibactam
C/T	Ceftolozane/Tazobactam 4
DLX	Delafloxacin
ERV	Eravacycline
IMI	Imipenem
IMR	Imipenem/Relebactam
LEVO	Levofloxacin
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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative MDRGNX2F 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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4609384	<i>Klebsiella pneumoniae</i> ATCC® BAA-1705™
R4601316	<i>Klebsiella pneumoniae</i> ATCC® BAA-2814™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Additional QC strains used for product release

R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	MEV 0.008/8	MEV 0.015/8	MEV 0.03/8	MEV 0.06/8	MEV 0.12/8	MEV 0.25/8	MEV 0.5/8	MEV 1/8	MEV 2/8	MEV 4/8	MEV 8/8	MEV 16/8
B	OMC 0.12	OMC 0.25	OMC 0.5	OMC 1	OMC 2	OMC 4	OMC 8	COL 0.25	COL 0.5	COL 1	COL 2	COL 4
C	PLZ 0.12	PLZ 0.25	PLZ 0.5	PLZ 1	PLZ 2	PLZ 4	IMI 2	IMI 4	IMI 8	IMI 16	FOS+ 64	FOS+ 128
D	C/T 0.06/4	C/T 0.12/4	C/T 0.25/4	C/T 0.5/4	C/T 1/4	C/T 2/4	C/T 4/4	C/T 8/4	DLX 0.12	DLX 0.25	DLX 0.5	DLX 1
E	CZA 0.12/4	CZA 0.25/4	CZA 0.5/4	CZA 1/4	CZA 2/4	CZA 4/4	CZA 8/4	CZA 16/4	CZA 32/4	MERO 0.25	MERO 0.5	MERO 1
F	ERV 0.03	ERV 0.06	ERV 0.12	ERV 0.25	ERV 0.5	ERV 1	ERV 2	ERV 4	ERV 8	MERO 2	MERO 4	MERO 8
G	FDC 0.03	FDC 0.06	FDC 0.12	FDC 0.25	FDC 0.5	FDC 1	FDC 2	FDC 4	FDC 8	FDC 16	FDC 32	POS
H	IMR 0.03/4	IMR 0.06/4	IMR 0.12/4	IMR 0.25/4	IMR 0.5/4	IMR 1/4	IMR 2/4	IMR 4/4	IMR 8/4	IMR 16/4	POS	POS

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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative GNX3F Plate

for second-line testing including colistin

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

CLSI recommended routine QC strains

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

Put 3-5 colonies into H₂O 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-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

	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
FEP	Cefepime
FOT	Cefotaxime
TAZ	Ceftazidime
CIP	Ciprofloxacin
COL	Colistin
DOR	Doripenem
DOX	Doxycycline
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
MIN	Minocycline
P/T4	Piperacillin/Tazobactam constant 4
POL	Polymyxin B
POS	Positive Control
TIM2	Ticarclillin/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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative GNX4F Plate

for second-line testing including colistin

Intended use	Read method
A 3 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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

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

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.
*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.



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 results¹ to guide optimal treatment decisions.

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

1. 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.

Thermo Fisher Scientific products are distributed globally so uses, applications, and availability of product in each country depend on local regulatory marketing authorization status.



Sensititre Gram Negative EUMDROXF 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)

EUCAST recommended routine QC strains

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

Put 3-5 colonies into H₂O 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-CO₂ incubator or Sensititre ARIS HiQ[#]

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	AZT 1	AZT 2	AZT 4	AZT 8	AZT 16	AZT 32	C/T 0.25/4	C/T 0.5/4	C/T 1/4	C/T 2/4	C/T 4/4	C/T 8/4
B	COL 0.5	COL 1	COL 2	COL 4	COL 8	COL 16	P/T4 4/4	P/T4 8/4	P/T4 16/4	P/T4 32/4	TGC 0.5	TGC 1
C	IMI 1	IMI 2	IMI 4	IMI 8	IMR 0.06/4	IMR 0.12/4	IMR 0.25/4	IMR 0.5/4	IMR 1/4	IMR 2/4	IMR 4/4	IMR 8/4
D	FEP 1	FEP 2	FEP 4	FEP 8	FEP 16	CZA 0.25/4	CZA 0.5/4	CZA 1/4	CZA 2/4	CZA 4/4	CZA 8/4	CZA 16/4
E	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	ERV 0.008	ERV 0.015	ERV 0.03	ERV 0.06	ERV 0.12	ERV 0.25	ERV 0.5
F	FDC 0.03	FDC 0.06	FDC 0.12	FDC 0.25	FDC 0.5	FDC 1	FDC 2	FDC 4	FDC 8	FOS+ 16	FOS+ 32	FOS+ 64
G	MERO 0.12	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8	MERO 16	TOB 0.5	TOB 1	TOB 2	TOB 4
H	MEV 0.06/8	MEV 0.12/8	MEV 0.25/8	MEV 0.5/8	MEV 1/8	MEV 2/8	MEV 4/8	MEV 8/8	MEV 16/8	POS	POS	POS

Antimicrobics

AMI	Amikacin
AZT	Aztreonam
FEP	Cefepime
FDC	Cefiderocol
CZA	Ceftazidime/Avibactam Constant 4
C/T	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/Tazobactam Constant 4
POS	Positive Control
TGC	Tigecycline
TOB	Tobramycin

[∞] No special broth required for cefiderocol testing. [#]For *Proteus* spp. ^{**}For Enterobacteriaceae and Non-Enterobacteriaceae. ^{***}For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae. ^{*}The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative NF Plate

for non-fermenter isolates

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious, Gram negative non-fermenter isolates such as <i>Pseudomonas</i> spp. and <i>Acinetobacter</i> 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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

	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
AZT	Aztreonam
CAR	Carbenicillin
FEP	Cefepime
FOP	Cefoperazone
FOT	Cefotaxime
TAZ	Ceftazidime
AXO	Ceftriaxone
CHL	Chloramphenicol
CIP	Ciprofloxacin
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
LOM	Lomefloxacin
NEG	Negative Control
PIP	Piperacillin
P/T4	Piperacillin/Tazobactam constant 4
POS	Positive Control
FIS	Sulfisoxazole
TET	Tetracycline
TIC	Ticarillin
TIM2	Ticarillin/Clavulanic acid constant 2
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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative EUX2NF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious, Gram negative non-fermenter isolates such as <i>Pseudomonas</i> spp. and <i>Acinetobacter</i> 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)

EUCAST recommended routine QC strains

Culti-Loops product code	Organism description
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4601314	<i>Escherichia coli</i> NCTC 13846

Additional QC strains used for product release

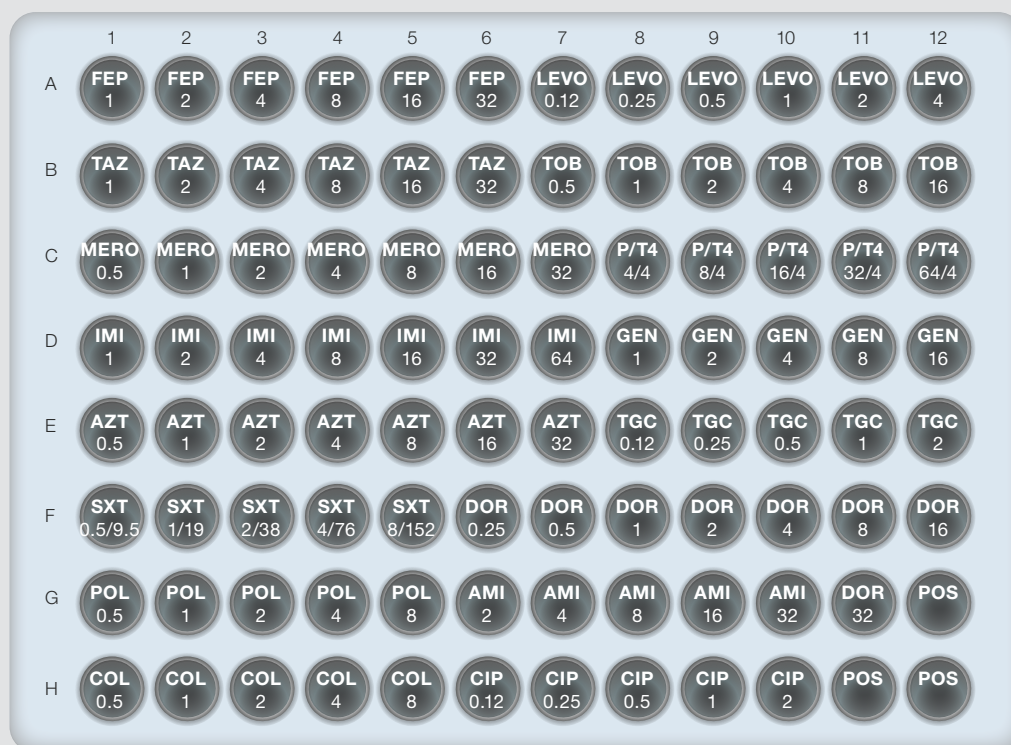
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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
AZT	Aztreonam
FEP	Cefepime
TAZ	Ceftazidime
CIP	Ciprofloxacin
COL	Colistin
DOR	Doripenem
GEN	Gentamicin
IMI	Imipenem
LEVO	Levofloxacin
MERO	Meropenem
P/T4	Piperacillin/Tazobactam constant 4
POL	Polymyxin B
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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative GNUR3F Plate

for urine isolates

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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	NEG CON	POS CON	POS CON	POS CON	NEG CON	POS CON	POS CON	POS CON	NEG CON	POS CON	POS CON	POS CON
B	AXO 1	CIP 1	CIP 2	CIP 4	AXO 1	CIP 1	CIP 2	CIP 4	AXO 1	CIP 1	CIP 2	CIP 4
C	AXO 2	NIT 32	NIT 64	NIT 128	AXO 2	NIT 32	NIT 64	NIT 128	AXO 2	NIT 32	NIT 64	NIT 128
D	AXO 4	AUG2 8/4	AUG2 16/8	AUG2 32/16	AXO 4	AUG2 8/4	AUG2 16/8	AUG2 32/16	AXO 4	AUG2 8/4	AUG2 16/8	AUG2 32/16
E	AXO 8	AZT 4	AZT 8	AZT 16	AXO 8	AZT 4	AZT 8	AZT 16	AXO 8	AZT 4	AZT 8	AZT 16
F	AXO 16	AMP 8	GEN 4	SXT 0.5/9.5	AXO 16	AMP 8	GEN 4	SXT 0.5/9.5	AXO 16	AMP 8	GEN 4	SXT 0.5/9.5
G	AXO 32	AMP 16	GEN 8	SXT 2/38	AXO 32	AMP 16	GEN 8	SXT 2/38	AXO 32	AMP 16	GEN 8	SXT 2/38
H	FAZ 4	FAZ 8	FAZ 16	FAZ 32	FAZ 4	FAZ 8	FAZ 16	FAZ 32	FAZ 4	FAZ 8	FAZ 16	FAZ 32

Antimicrobics

AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
AMP	Ampicillin
AZT	Aztreonam
FAZ	Cefazolin
AXO	Ceftriaxone
CIP	Ciprofloxacin
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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Negative ESB1F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing extended-spectrum β -lactamase (ESBL) producing 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	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4603074	<i>Klebsiella pneumoniae</i> ATCC® 700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O to measure a 0.5 McFarland using the Nephelometer, mix 1 μ L*, 10 μ L**, or 30 μ L*** of suspension into MHB

Inoculate plate with 50 μ L 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-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

	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
FAZ	Cefazolin
FEP	Cefepime
FOT	Cefotaxime
F/C	Cefotaxime/Clavulanic acid
FOX	Cefoxitin
POD	Cefpodoxime
TAZ	Ceftazidime
T/C	Ceftazidime/Clavulanic acid
AXO	Ceftriaxone
CEP	Cephalothin
CIP	Ciprofloxacin
GEN	Gentamicin
IMI	Imipenem
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.

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Positive GPALL1F Plate

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	<i>Enterococcus faecalis</i> ATCC® 29212™
R4606512	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-976™
R4607010	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 25923™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4606513	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-977™

CLSI recommended supplemental quality control:

R4606513	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-977™
R4601996	<i>Enterococcus faecalis</i> ATCC® 51299™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	CHL 2	CHL 4	CHL 8	CHL 16	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	CLI 0.5	CLI 1	CLI 2
B	DAP 0.5	DAP 1	DAP 2	DAP 4	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	OXA+ 4	STR 1000	DT1	DT2
C	GEN 2	GEN 4	GEN 8	GEN 16	AMP 0.12	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	FOXS 6
D	LZD 1	LZD 2	LZD 4	LZD 8	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8
E	RIF 0.5	RIF 1	RIF 2	RIF 4	VAN 0.25	VAN 0.5	VAN 1	VAN 2	VAN 4	VAN 8	VAN 16	VAN 32
F	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	LEVO 0.25	LEVO 0.5	LEVO 1	LEVO 2	LEVO 4	CIP 1	CIP 2	POS
G	SYN 0.5	SYN 1	SYN 2	SYN 4	TGC 0.03	TGC 0.06	TGC 0.12	TGC 0.25	TGC 0.5	NIT 32	NIT 64	POS
H	TET 2	TET 4	TET 8	TET 16	MXF 0.25	MXF 0.5	MXF 1	MXF 2	MXF 4	GEN 500	NEG	POS

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
SYN	Quinupristin/Dalfopristin
RIF	Rifampin
STR	Streptomycin
TET	Tetracycline
TGC	Tigecycline
SXT	Trimethoprim/Sulfamethoxazole
VAN	Vancomycin

*For aid in detection of resistance mechanisms for Gram positive organisms. *The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Positive EUSTAPF Plate

with ceftaroline and telavancin

Intended use	Read method
Antimicrobial susceptibility plate for testing <i>Staphylococcus</i> 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	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Additional QC strains used in product release testing	
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4606512	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-976™
R4606513	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-977™
R4607010	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 25923™

Put 3-5 colonies into H₂O 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-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

	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	FOX 6	POS	POS

Antimicrobics

FOX	Cefoxitin
FOX5	Cefoxitin screen
CPT	Ceftaroline
CLI	Clindamycin
DT1	D Test 1
DT2	D Test 2
DAP	Daptomycin
ERY	Erythromycin
FUS	Fusidate
GEN	Gentamicin
LEVO	Levofloxacin
LZD	Linezolid
MXF	Moxifloxacin
MUP	Mupirocin
NEG	Negative control
NOR	Norfloxacin
POS	Positive control
RIF	Rifampin
TEI	Teicoplanin
TLA	Telavancin
TET	Tetracycline
TOB	Tobramycin
SXT	Trimethoprim/Sulfanethoxazole
VAN	Vancomycin

*For aid in detection of resistance mechanisms for Gram positive organisms. *The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Gram Positive EUENCF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing <i>Enterococcus</i> 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	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
Additional QC strains used for product release	
R4601996	<i>Enterococcus faecalis</i> ATCC® 51299™
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMP 0.25	AMOX 0.25	AUGC 0.25/2	VAN 0.12	TMP 0.015	LZD 0.5	TEI 0.5	IMI 0.5	SYN 0.25	TGC 0.06	CIP 0.5	LEVO 0.5
B	AMP 0.5	AMOX 0.5	AUGC 0.5/2	VAN 0.25	TMP 0.03	LZD 1	TEI 1	IMI 1	SYN 0.5	TGC 0.12	CIP 1	LEVO 1
C	AMP 1	AMOX 1	AUGC 1/2	VAN 0.5	TMP 0.06	LZD 2	TEI 2	IMI 2	SYN 1	TGC 0.25	CIP 2	LEVO 2
D	AMP 2	AMOX 2	AUGC 2/2	VAN 1	TMP 0.12	LZD 4	TEI 4	IMI 4	SYN 2	TGC 0.5	CIP 4	LEVO 4
E	AMP 4	AMOX 4	AUGC 4/2	VAN 2	TMP 0.25	LZD 8	TEI 8	IMI 8	SYN 4	TGC 1	CIP 8	LEVO 8
F	AMP 8	AMOX 8	AUGC 8/2	VAN 4	TMP 0.5	NIT 32	STR 512	IMI 16	SYN 8	TGC 2	CIP 16	LEVO 16
G	AMP 16	AMOX 16	AUGC 16/2	VAN 8	TMP 1	NIT 64	STR 1024	NOR 4	NOR 8	NOR 16	POS CON	NEG CON
H	AMP 32	AMOX 32	AUGC 32/2	VAN 16	TMP 2	TMP 4	GEN 32	GEN 64	GEN 128	GEN 256	POS CON	POS CON

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

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensitre Streptococcus species STP6F Plate

Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Streptococcus</i> species isolates	Autoread or manual Sensitre ARIS HiQ (V4000) [#] Sensitre OptiRead (V3030) Sensitre Vizion (V2021) Sensitre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4609015	<i>Streptococcus pneumoniae</i> ATCC®49619
Broth type	Inoculum preparation		
Sensitre Mueller Hinton Broth w/ Lysed Horse Blood – manual read (CP112-10) or Sensitre Mueller Hinton Broth w/ Lysed Horse Blood – autoread (CP11410)	0.5 McFarland Standard (E1041) Sensitre Mueller Hinton Broth 5 mL (T3462-05)		

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 Sensitre AIM or Multi-Channel Pipette

Seal Sensitre plate and incubate at 34-36°C in a non-CO₂ incubator or Sensitre ARIS HiQ[#] for 20-24 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

[#]The Sensitre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Streptococcus FDANDSF Plate

withoritavancin, dalbavancin, and tedizolid

Intended use	Read method
Antimicrobial susceptibility plate for testing <i>Streptococcus</i> 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 w/ 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
R4609015	<i>Streptococcus pneumoniae</i> ATCC®49619
Additional QC strains used for product release	
R4606512	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-976™
R4606513	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® BAA-977™
R4607010	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 25923™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

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-CO₂ incubator or Sensititre ARIS HiQ® for 20-24 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	ORI 0.0005	ORI 0.001	ORI 0.002	ORI 0.004	ORI 0.008	ORI 0.015	ORI 0.03	ORI 0.06	ORI 0.12	ORI 0.25	ORI 0.5	ORI 1
B	TZD 0.002	TZD 0.004	TZD 0.008	TZD 0.015	TZD 0.03	TZD 0.06	TZD 0.12	TZD 0.25	TZD 0.5	TZD 1	TZD 2	TZD 4
C	CPT 0.004	CPT 0.008	CPT 0.015	CPT 0.03	CPT 0.06	CPT 0.12	CPT 0.25	CPT 0.5	CPT 1	CPT 2	CPT 4	CPT 8
D	DAL 0.001	DAL 0.002	DAL 0.004	DAL 0.008	DAL 0.015	DAL 0.03	DAL 0.06	DAL 0.12	DAL 0.25	DAL 0.5	DAL 1	DAL 2
E	TLA 0.001	TLA 0.002	TLA 0.004	TLA 0.008	TLA 0.015	TLA 0.03	TLA 0.06	TLA 0.12	TLA 0.25	TLA 0.5	TLA 1	TLA 2
F	LZD 0.25	LZD 0.5	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16	LZD 32				
G	VAN 0.06	VAN 0.12	VAN 0.25	VAN 0.5	VAN 1	VAN 2	VAN 4					DTS
H	CLI 0.12	CLI 0.25	CLI 0.5	CLI 1	ERY 0.25	ERY 0.5	ERY 1	ERY 2	ERY 4	POS	POS	POS

Antimicrobics

CPT	Ceftaroline
CLI	Clindamycin
DTS	D Test
DAL	Dalbavancin
ERY	Erythromycin
LZD	Linezolid
ORI	Oritavancin
POS	Positive control
TZD	Tedizolid
TLA	Telavancin
VAN	Vancomycin

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Haemophilus and Streptococcus pneumoniae HPB1 Plate

Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Streptococcus pneumoniae</i> and <i>Haemophilus influenzae</i> isolates	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4603830	<i>Haemophilus influenzae</i> ATCC® 49247™
		R4603806	<i>Haemophilus influenzae</i> ATCC® 49766™
		R4609015	<i>Streptococcus pneumoniae</i> ATCC®49619
Broth type	Inoculum preparation		
Sensititre HTM (T3470)* or Sensititre Mueller Hinton Broth w/ Lysed Horse Blood – manual read (CP112-10)**	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)		

Put 3-5 colonies into H₂O to measure a 0.5 McFarland using the Nephelometer, Mix 50 µL* or 100 µL** of suspension into HTM* or MHB w/ 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-CO₂ incubator for 20-24 hours

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	LEVO 4	CLA 16	PEN 1	AXO 2	AMP 4	SPX 1	SXT 2/38	MERO 2	FUR 8	TET 4	CHL 4	AUG2 16/8
B	LEVO 2	CLA 8	PEN 0.5	AXO 1	AMP 2	SPX 0.5	SXT 1/19	MERO 1	FUR 4	TET 2	CHL 2	AUG2 8/4
C	LEVO 1	CLA 4	PEN 0.25	AXO 0.5	AMP 1	SPX 0.25	SXT 0.5/9.5	MERO 0.5	FUR 2	TET 1	CHL 1	AUG2 4/2
D	LEVO 0.5	CLA 2	PEN 0.12	AXO 0.25	AMP 0.5	SPX 0.12	SXT 0.25/4.75	MERO 0.25	FUR 1	TET 0.5	CHL 0.5	AUG2 2/1
E	LEVO 0.25	CLA 1	PEN 0.06	AXO 0.12	AMP 0.25	SPX 0.06	SXT 0.12/2.38	MERO 0.12	FUR 0.5	TET 0.25	ERY 0.25	ERY 0.5
F	LEVO 0.12	CLA 0.5	PEN 0.03	AXO 0.06	AMP 0.12	SPX 0.03	SXT 0.06/1.19	MERO 0.06	FIX 0.12	FIX 0.25	FIX 0.5	FIX 1
G	LEVO 0.06	CLA 0.25	PEN 0.015	AXO 0.03	FEP 0.12	FEP 0.25	FEP 0.5	FEP 1	FEP 2	A/S2 1/0.5	A/S2 2/1	POS
H	LEVO 0.03	CLA 0.12	FAC 4	FAC 8	FAC 16	IMI 0.5	IMI 1	IMI 2	IMI 4	POS	POS	POS

Antimicrobics

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

*For *Haemophilus*. **For *S. pneumoniae/streptococcus*.

Sensititre Anaerobe ANO2B Plate

for *B. fragilis* group

Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing anaerobic organisms <i>Bacteroides fragilis</i> group	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4601250	<i>Bacteroides fragilis</i> ATCC® 25285™
		R4601260	<i>Bacteroides thetaiotaomicron</i> ATCC® 29741™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre™ Supplemented Brucella Broth for Anaerobes (T3450)	0.5 McFarland Standard (E1041) Sensititre™ Cation Adjusted Mueller-Hinton Broth with TES (CAMHBT) (T3462-05)	R4601971	<i>Escherichia coli</i> 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

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

Antimicrobics

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

Sensititre Anaerobe ANAERO3 Plate

for *B. fragilis* group, with amoxicillin, erythromycin, moxifloxacin and vancomycin

Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing anaerobic organisms <i>Bacteroides fragilis</i> group	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4601250	<i>Bacteroides fragilis</i> ATCC® 25285™
		R4601260	<i>Bacteroides thetaiotaomicron</i> ATCC® 29741™
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)		

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

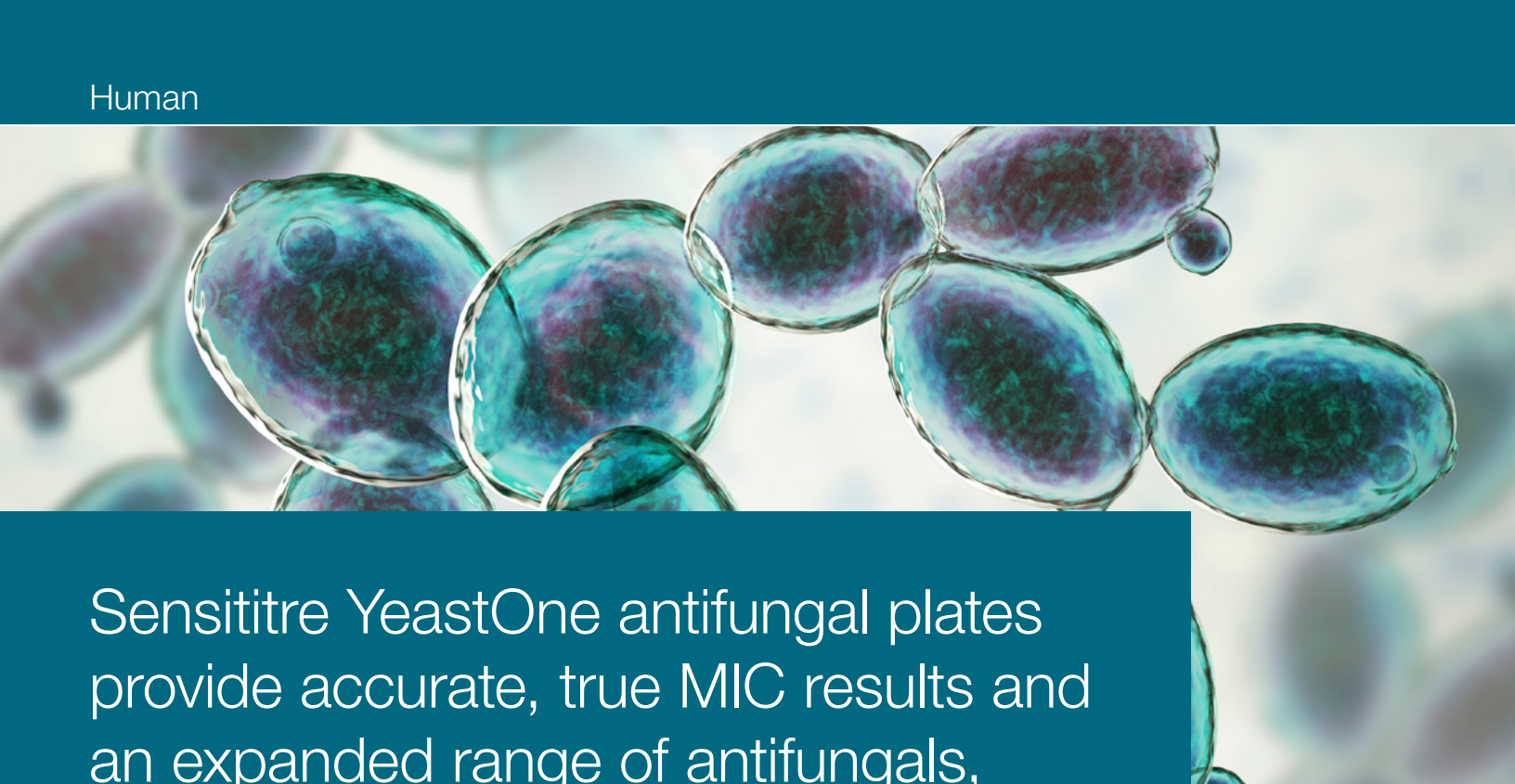
Seal plates and incubate at 34-36°C in an anaerobic atmosphere for 46-48 hours

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
FOX	Cefoxitin
CHL	Chloramphenicol
CLI	Clindamycin
ERY	Erythromycin
IMI	Imipenem
MRD	Metronidazole
MXF	Moxifloxacin
PEN	Penicillin
PIP	Piperacillin
P/T4	Piperacillin/Tazobactam constant 4
POS	Positive Control
TET	Tetracycline



Sensititre YeastOne antifungal plates provide accurate, true MIC results and an expanded range of antifungals, including 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. Additional plates in the YeastOne portfolio include a wide range of antifungals, allowing you to perform your fungal testing on one platform with clear, easy-to-read end point determination.

All YeastOne plates include:

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

Sensititre YeastOne YO3IVD Plate

with micafungin

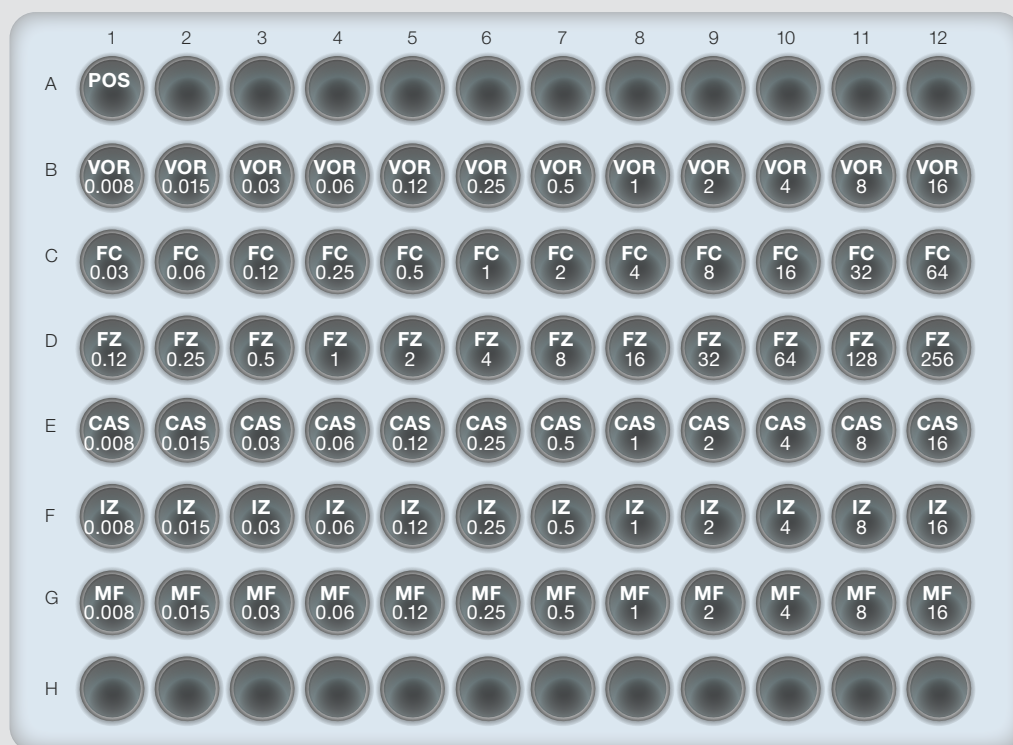
Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Candida</i> species	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4601520	<i>Issatchenkia orientalis</i> ATCC® 6258™
		R4601518	<i>Candida parapsilosis</i> ATCC® 22019™
Broth type	Inoculum preparation		
Sensititre YeastOne Broth (Y3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ incubator for 24-25 hours

Read semi-automatically with Vizion or manually with Manual Viewbox



Antimicrobics

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

Sensititre YeastOne YO10 Plate

with anidulafungin and micafungin

Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Candida</i> species	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4601520	<i>Issatchenkia orientalis</i> ATCC® 6258™
		R4601518	<i>Candida parapsilosis</i> ATCC® 22019™
Broth type	Inoculum preparation		
Sensititre YeastOne Broth (Y3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ incubator for 24-25 hours

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	POS	AND 0.015	AND 0.03	AND 0.06	AND 0.12	AND 0.25	AND 0.5	AND 1	AND 2	AND 4	AND 8	AB 0.12
B	MF 0.008	MF 0.015	MF 0.03	MF 0.06	MF 0.12	MF 0.25	MF 0.5	MF 1	MF 2	MF 4	MF 8	AB 0.25
C	CAS 0.008	CAS 0.015	CAS 0.03	CAS 0.06	CAS 0.12	CAS 0.25	CAS 0.5	CAS 1	CAS 2	CAS 4	CAS 8	AB 0.5
D	FC 0.06	FC 0.12	FC 0.25	FC 0.5	FC 1	FC 2	FC 4	FC 8	FC 16	FC 32	FC 64	AB 1
E	PZ 0.008	PZ 0.015	PZ 0.03	PZ 0.06	PZ 0.12	PZ 0.25	PZ 0.5	PZ 1	PZ 2	PZ 4	PZ 8	AB 2
F	VOR 0.008	VOR 0.015	VOR 0.03	VOR 0.06	VOR 0.12	VOR 0.25	VOR 0.5	VOR 1	VOR 2	VOR 4	VOR 8	AB 4
G	IZ 0.015	IZ 0.03	IZ 0.06	IZ 0.12	IZ 0.25	IZ 0.5	IZ 1	IZ 2	IZ 4	IZ 8	IZ 16	AB 8
H	FZ 0.12	FZ 0.25	FZ 0.5	FZ 1	FZ 2	FZ 4	FZ 8	FZ 16	FZ 32	FZ 64	FZ 128	FZ 256

Antimicrobics

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

Sensititre Mycobacterium tuberculosis

MYCOTB Plate

Intended use	Read method	CLSI recommended routine QC strains	
Determination of MICs to first and second-line anti-tuberculosis drugs for <i>Mycobacterium tuberculosis</i> isolates	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code N/A	Organism description <i>Mycobacterium tuberculosis</i> ATCC® 27294™
Broth type	Inoculum preparation		
Sensititre Middlebrook 7H9 with OADC (T3440)	0.5 McFarland Standard (E1041) Sensititre Saline Tween with Glass Beads (T3490)		

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-CO₂ 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

Sensititre Mycobacterium tuberculosis MYCOTBI Plate

Intended use	Read method	CLSI recommended routine QC strains	
Determination of MICs to first and second-line anti-tuberculosis drugs for <i>Mycobacterium tuberculosis</i> isolates	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code N/A	Organism description <i>Mycobacterium tuberculosis</i> ATCC® 27294™
Broth type	Inoculum preparation		
Sensititre Middlebrook 7H9 with OADC (T3440)	0.5 McFarland Standard (E1041) Sensititre Saline Tween with Glass Beads (T3490)		

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-CO₂ 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

Sensititre Rapid Growing Mycobacteria RAPMYCO2 Plate

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	<i>Mycobacterium peregrinum</i> ATCC® 700686
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used in product release testing	
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
N/A	<i>Mycobacterium smegmatis</i> ATCC® 19420™

Put 3-5 colonies into H₂O 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-CO₂ 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
FOX	Cefoxitin
CIP	Ciprofloxacin
CLA	Clarithromycin
CFZ	Clofazimine
DOX	Doxycycline
IMI	Imipenem
LZD	Linezolid
MXF	Moxifloxacin
POS	Positive Control
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim/Sulfamethoxazole

*For *Nocardia* spp. and other aerobic actinomycetes, incubate at 35°C in a non-CO₂ incubator for 2-3 days.

Sensititre Rapid Growing Myco bacteria RAPMYCOI Plate

Intended use	Read method
Susceptibility testing of rapidly growing mycobacteria, <i>Nocardia</i> 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	<i>Mycobacterium peregrinum</i> ATCC 700686
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used in product release testing	
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
N/A	<i>Mycobacterium smegmatis</i> ATCC 19420

Put 3-5 colonies into H₂O 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-CO₂ air incubator for 72 hours*

Read semi-automatically with Vizion or manually with Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	SXT 0.25/4.75	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	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
FEP	Cefepime
FOX	Cefoxitin
AXO	Ceftriaxone
CIP	Ciprofloxacin
CLA	Clarithromycin
DOX	Doxycycline
IMI	Imipenem
LZD	Linezolid
MIN	Minocycline
MXF	Moxifloxacin
POS	Positive control
TGC	Tigecycline
TOB	Tobramycin
SXT	Trimethoprim/Sulfamethoxazole

*For *Nocardia* spp. and other aerobic actinomycetes, incubate at 35°C in a non-CO₂ incubator for 2-3 days.

Sensitre Slow Growing Mycobacteria SLOMYCO2 Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing slow growing mycobacterium species	Manual and semi-automated Sensitre Vizion (V2021) Sensitre Manual Viewbox (V4007)
Broth type	Inoculum preparation
Sensitre MHB with TES (T3462)	0.5 McFarland Standard (E1041) Sensitre Sterile Water (T3339)

CLSI recommended routine QC strains

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

Put 3-5 colonies into H₂O to measure a 0.5 McFarland using the Nephelometer, mix 50 µL of suspension into Sensitre MHB with TES

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

Seal Sensitre plate and incubate at 30°C in a non-CO₂ air incubator for 72 hours*

Read semi-automatically with Vizion or manually with Manual Viewbox

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

Antimicrobics

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

*For *Nocardia* spp. and other aerobic actinomycetes, incubate at 35°C in a non-CO₂ incubator for 2-3 days.

Sensititre Slow Growing Mycobacteria SLOMYCOI Plate

Intended use	Read method	CLSI recommended routine QC strains	
Susceptibility testing of slowly growing non-tuberculosis mycobacteria (NTM), i.e. <i>Mycobacterium avium</i> complex, <i>Mycobacterium kansasii</i> and <i>Mycobacterium marinum</i> . Please refer to CLSI for details of testing <i>M. marinum</i>	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
		Additional QC strains used in product release testing	
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		N/A	<i>Mycobacterium smegmatis</i> ATCC 19420
		N/A	<i>Mycobacterium peregrinum</i> ATCC 700686
		N/A	<i>Mycobacterium avium</i> ATCC 700898
Broth type	Inoculum preparation		
Sensititre MHB with TES (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ 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	CLA 0.06	CLA 0.12	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4	CLA 8	CIP 16	STR 64	DOX 16	ETH 20
B	CLA 16	CLA 32	CLA 64	MXF 8	RIF 8	SXT 8/152	AMI 64	LZD 64	CIP 8	STR 32	DOX 8	ETH 10
C	RFB 8	EMB 16	INH 8	MXF 4	RIF 4	SXT 4/76	AMI 32	LZD 32	CIP 4	STR 16	DOX 4	ETH 5
D	RFB 4	EMB 8	INH 4	MXF 2	RIF 2	SXT 2/38	AMI 16	LZD 16	CIP 2	STR 8	DOX 2	ETH 2.5
E	RFB 2	EMB 4	INH 2	MXF 1	RIF 1	SXT 1/19	AMI 8	LZD 8	CIP 1	STR 4	DOX 1	ETH 1.2
F	RFB 1	EMB 2	INH 1	MXF 0.5	RIF 0.5	SXT 0.5/9.5	AMI 4	LZD 4	CIP 0.5	STR 2	DOX 0.5	ETH 0.6
G	RFB 0.5	EMB 1	INH 0.5	MXF 0.25	RIF 0.25	SXT 0.25/4.75	AMI 2	LZD 2	CIP 0.25	STR 1	DOX 0.25	ETH 0.3
H	RFB 0.25	EMB 0.5	INH 0.25	MXF 0.12	RIF 0.12	SXT 0.12/2.38	AMI 1	LZD 1	CIP 0.12	STR 0.5	DOX 0.12	POS

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-CO₂ incubator for 2-3 days.

Sensititre NOCARDIA Plate

Intended use	Read method	CLSI recommended routine QC strains	
Susceptibility testing of Nocardia species and other aerobic actinomycetes	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
Broth type	Inoculum preparation		
Sensititre MHB with TES (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ 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	TOB 2	TOB 4	TOB 8	TOB 16	TOB 32	TOB 64	LZD 0.5	LZD 1	LZD 2	LZD 4	LZD 8	LZD 16
B	SXT 0.06/1.19	SXT 0.12/2.38	SXT 0.25/4.75	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	SXT 8/152	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1
C	DOX 2	DOX 4	DOX 8	DOX 16	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	CIP 16
D	AUG2 2/1	AUG2 4/2	AUG2 8/4	AUG2 16/8	AUG2 32/16	AUG2 64/32	AUG2 128/64	MXF 0.015	MXF 0.03	MXF 0.06	MXF 0.12	MXF 0.25
E	MXF 0.5	MXF 1	MXF 2	MXF 4	MXF 8	AMI 0.5	AMI 1	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32
F	IMI 0.12	IMI 0.25	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	IMI 16	IMI 32	AXO 1	AXO 2	AXO 4
G	AXO 8	AXO 16	AXO 32	AXO 64	CLA 0.03	CLA 0.06	CLA 0.12	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4
H	CLA 8	CLA 16	MIN 0.06	MIN 0.12	MIN 0.25	MIN 0.5	MIN 1	MIN 2	MIN 4	MIN 8	MIN 16	POS

Antimicrobics

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

*For *Nocardia* spp. and other aerobic actinomycetes, incubate at 35°C in a non-CO₂ incubator for 2-3 days.



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

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

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

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



Vet standard plate formats

		COMPANION			BOVINE/ PORCINE	AVIAN	EQUINE	URINE (all)	BOVINE (mastitis)	TOPICAL (all)
		GRAM NEGATIVE	GRAM POSITIVE	GRAM NEGATIVE/POSITIVE						
INSTRUMENTS		COMPAN1F	COMPGP1F	COMPAN2F	BOPOZF	AVIAN1F	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)									●

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Sensititre Companion Animal Gram Negative COMPGN1F Plate with pradofloxacin

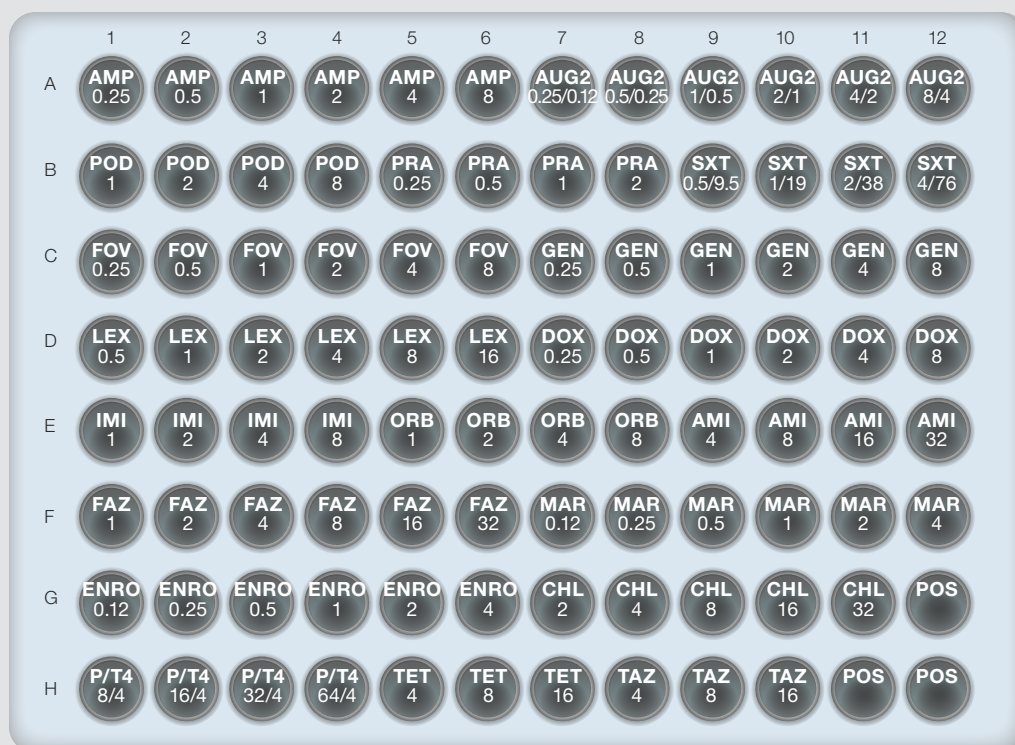
Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing non-fastidious Gram negative isolates of veterinary origin	Autoread or manual Sensititre ARIS HiQ (V4000)* Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		QC strains used for product release	
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-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
AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
AMP	Ampicillin
FAZ	Cefazolin
POD	Cefopodoxime
FOV	Cefovecin
TAZ	Ceftazidime
LEX	Cephalexin
CHL	Chloramphenicol
DOX	Doxycycline
ENRO	Enrofloxacin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
ORB	Orbifloxacin
P/T4	Piperacillin/Tazobactam content 4
POS	Positive control
PRA	Pradofloxacin
TET	Tetracycline
SXT	Trimethoprim/Sulfamethoxazole

*For Proteus spp. *The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Companion Animal Gram Positive COMP GP1F Plate with pradofloxacin

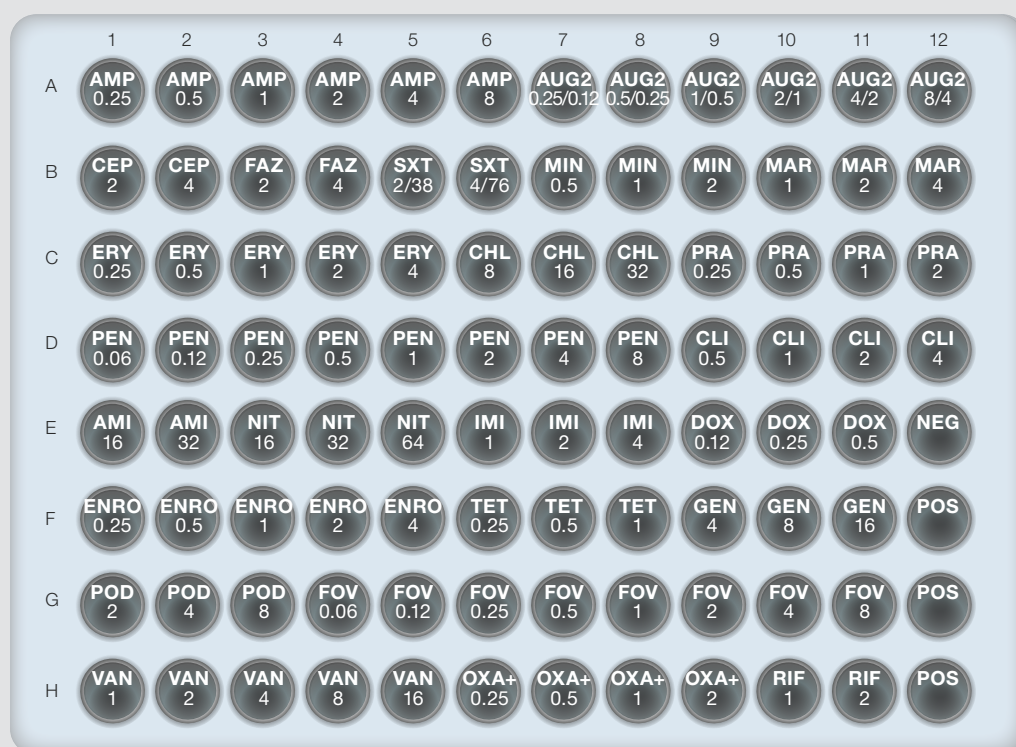
Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing non-fastidious Gram positive isolates of veterinary origin	Autoread or manual Sensititre ARIS HiQ (V4000) [#] Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-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
AUG2	Amoxicillin/Clavulanic acid 2:1 ratio
AMP	Ampicillin
FAZ	Cefazolin
POD	Cefopodoxime
FOV	Cefovecin
CEP	Cephalexin
CHL	Chloramphenicol
CLI	Clindamycin
DOX	Doxycycline
ENRO	Enrofloxacin
ERY	Erythromycin
GEN	Gentamicin
IMI	Imipenem
MAR	Marbofloxacin
MIN	Minocycline
NEG	Negative control
NIT	Nitrofurantoin
OXA+	Oxacillin + 2% NaCl
PEN	Penicillin
POS	Positive control
PRA	Pradofloxacin
RIF	Rifampin
TET	Tetracycline
SXT	Trimethoprim/Sulfamethoxazole
VAN	Vancomycin

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. [#]The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Companion Animal COMPAN2F Plate

Intended use	Read method	CLSI recommended routine QC strains	
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)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Organism ID specific (see IFU)	0.5 McFarland Standard (E1041)		

Put 3-5 colonies into H₂O 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-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

	1	2	3	4	5	6	7	8	9	10	11	12
A	AMP 0.12	AMP 0.25	AMP 0.5	AMP 1	CEP 2	CEP 4	CEP 8	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	OXA+ 4
B	AUG2 0.12/0.06	AUG2 0.25/0.12	AUG2 0.5/0.25	AUG2 1/0.5	AMI 4	AMI 8	AMI 16	AMI 32	FOX 2	FOX 4	FOX 8	FOX 16
C	TIC 8	TIC 16	TIC 32	TIC 64	POD 2	POD 4	POD 8	POD 16	TIM2 8/2	TIM2 16/2	TIM2 32/2	TIM2 64/2
D	SXT 0.5/9.5	SXT 1/19	SXT 2/38	FOV 0.25	FOV 0.5	FOV 1	FOV 2	FOV 4	FAZ 1	FAZ 2	FAZ 4	FAZ 8
E	GEN 1	GEN 2	GEN 4	GEN 8	IMI 1	IMI 2	IMI 4	IMI 8	CLI 0.5	CLI 1	CLI 2	CLI 4
F	PEN 0.06	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8	DOX 2	DOX 4	DOX 8	POS
G	XNL 0.25	XNL 0.5	XNL 1	XNL 2	XNL 4	MAR 0.25	MAR 0.5	MAR 1	MAR 2	RIF 1	RIF 2	POS
H	ENRO 0.25	ENRO 0.5	ENRO 1	ENRO 2	ERY 0.5	ERY 1	ERY 2	ERY 4	CHL 4	CHL 8	CHL 16	POS

Antimicrobics

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

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. [#]The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Bovine BOP07F Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin. (For <i>Mannheimia hemolytica</i> , <i>Pasteurella multocida</i> , <i>Bordetella bronchiseptica</i> , <i>Streptococcus pneumoniae</i> , <i>Histophilus somni</i> , and <i>Actinobacillus pleuropneumoniae</i> isolates, contact your local Thermo Fisher 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	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Additional QC strains used for product release

R4609015	<i>Streptococcus pneumoniae</i> ATCC®49619
N/A	<i>Histophilus somni</i> ATCC 700025
N/A	<i>Actinobacillus pleuropneumoniae</i> ATCC 27090

Put 3-5 colonies into H₂O 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-CO₂ incubator or Sensititre ARIS HiQ[#] for 18-24 hours***

Automatically read with ARIS HiQ[#] or OptiRead or manually read with Sensititre Vizion or Sensititre 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. *The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Vet Avian AVIAN1F Plate

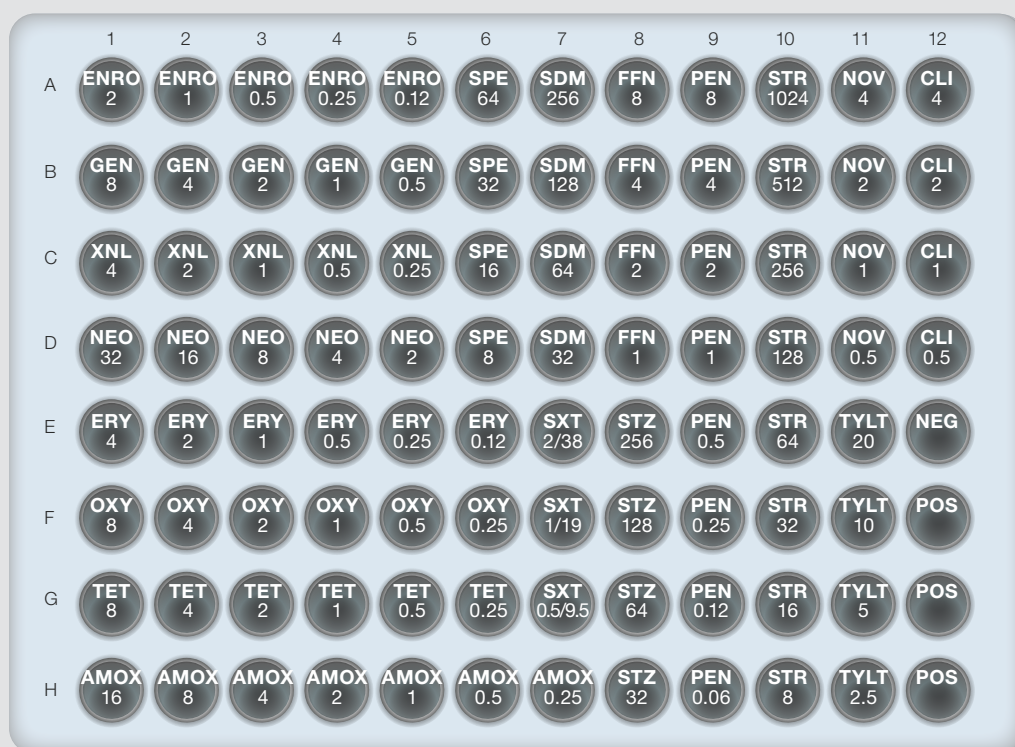
Intended use	Read method	CLSI recommended routine QC strains	
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin	Autoread or manual Sensititre ARIS HiQ (V4000) [#] Sensititre OptiRead (V3030) Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-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

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

[#]For *Proteus* spp. ^{**}For Enterobacteriaceae and Non-Enterobacteriaceae. ^{***}For aid in detection of resistance mechanisms for Enterobacteriaceae and Non-Enterobacteriaceae.

^{*}The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Equine EQUIN2F AST Plate

Intended use	Read method	CLSI recommended routine QC strains	
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)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-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

	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	ERY 8	CLA 0.25	CLA 0.5	CLA 1	CLA 2	CLA 4	CLA 8
B	CHL 4	CHL 8	CHL 16	CHL 32	FAZ 1	FAZ 2	FAZ 4	FAZ 8	IMI 1	IMI 2	IMI 4	IMI 8
C	OXA+ 0.25	OXA+ 0.5	OXA+ 1	OXA+ 2	OXA+ 4	PEN 0.12	PEN 0.25	PEN 0.5	PEN 1	PEN 2	PEN 4	PEN 8
D	ENRO 0.06	ENRO 0.12	ENRO 0.25	ENRO 0.5	ENRO 1	AMP 0.25	AMP 0.5	AMP 1	AMP 2	AMP 4	AMP 8	AMP 16
E	MIN 0.12	MIN 0.25	MIN 0.5	MIN 1	MIN 2	DOX 0.12	DOX 0.25	DOX 0.5	DOX 1	DOX 2	DOX 4	DOX 8
F	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TAZ 16	TET 0.25	TET 0.5	TET 1	TET 2	TET 4	TET 8	POS
G	AMI 2	AMI 4	AMI 8	AMI 16	AMI 32	XNL 0.25	XNL 0.5	XNL 1	XNL 2	XNL 4	XNL 8	POS
H	GEN 1	GEN 2	GEN 4	GEN 8	RIF 1	RIF 2	RIF 4	SXT 0.5/9.5	SXT 1/19	SXT 2/38	SXT 4/76	POS

Antimicrobics

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

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

*The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Urinary CMV1BURF Plate

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

CLSI recommended routine QC strains

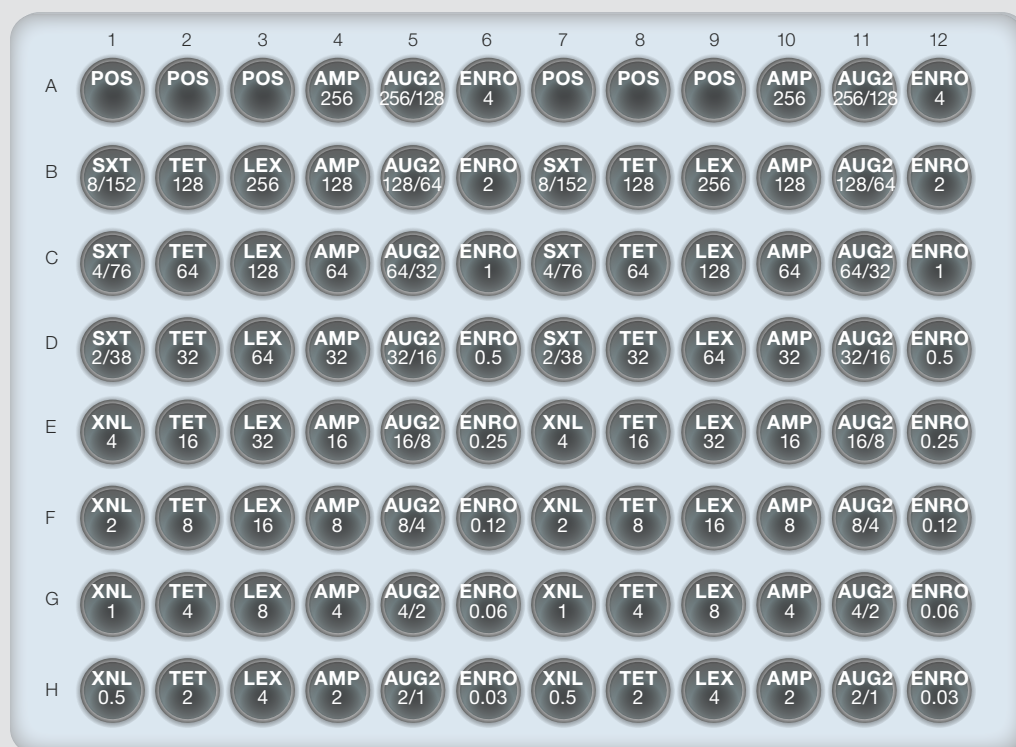
Culti-Loops product code	Organism description
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4601971	<i>Escherichia coli</i> ATCC® 35218™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC®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

Put 3-5 colonies into H₂O 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-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

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

[#]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.
^{*}The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Vet Mastitis CMV1AMAF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing non-fastidious Gram positive and Gram negative isolates of veterinary origin. (For <i>Streptococcus pneumoniae</i> 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

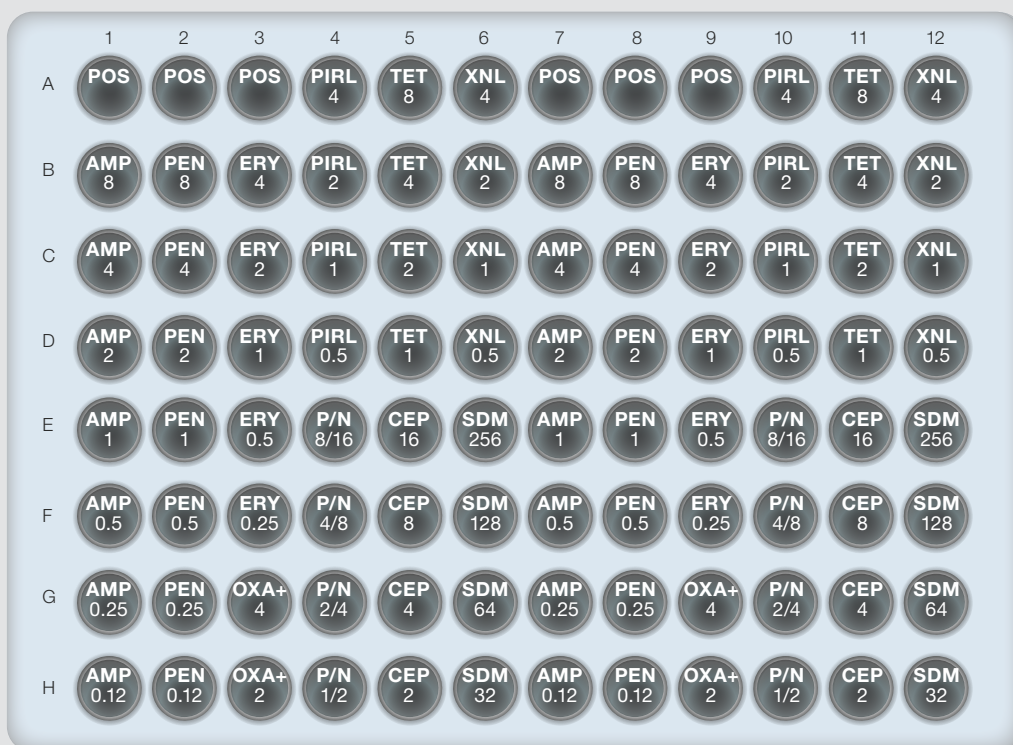
Culti-Loops product code	Organism description
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-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

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

*Ensure detection of hetero-resistant isolates among *Staphylococcus* and *Enterococcus* spp. **Incubate for 24 hours to ensure detection of oxacillin-resistant *Staphylococcus* and vancomycin-resistant *Enterococcus* spp. The Sensititre ARIS HiQ AST System is not yet available in all territories. Please contact your local Thermo Fisher Scientific Microbiology sales representative for more information.

Sensititre Breakpoint Eye Two-Isolate JOEYE2 Plate

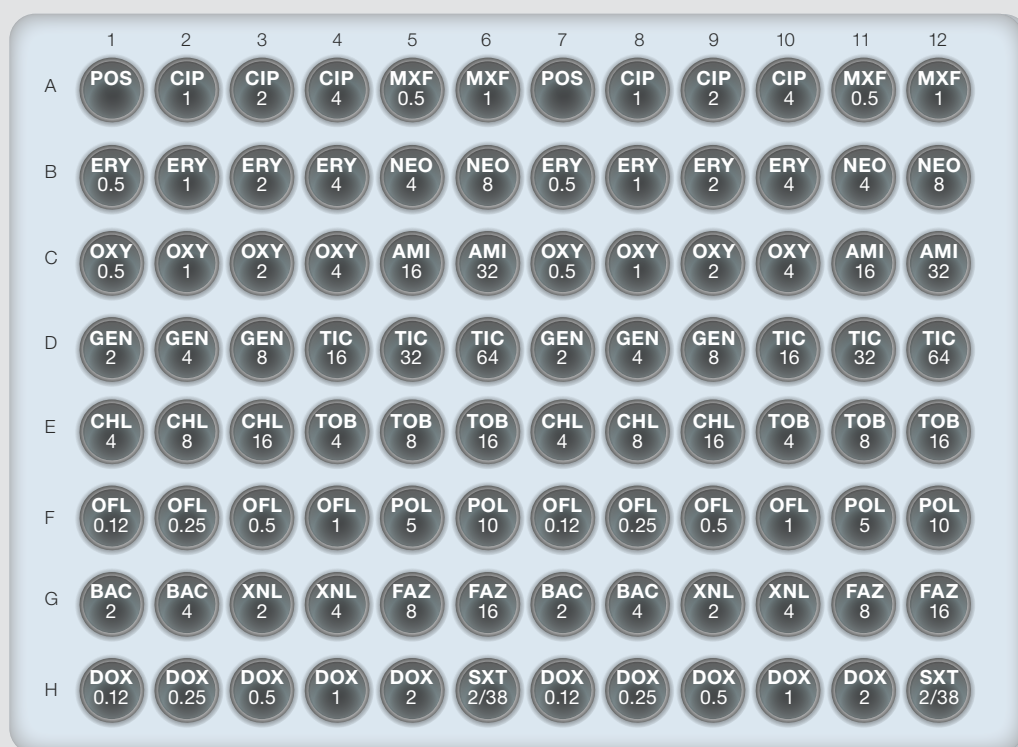
Intended use	Read method	CLSI recommended routine QC strains	
Perform accurate AST with this dual-isolate plate for breakpoint testing of topical compounds	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18-24 hours

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

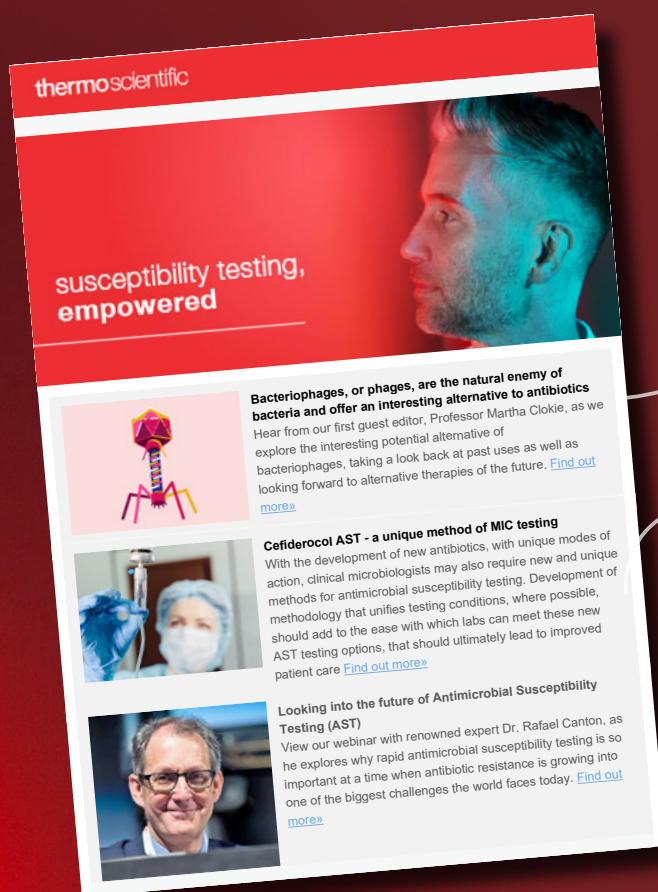


Antimicrobics

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

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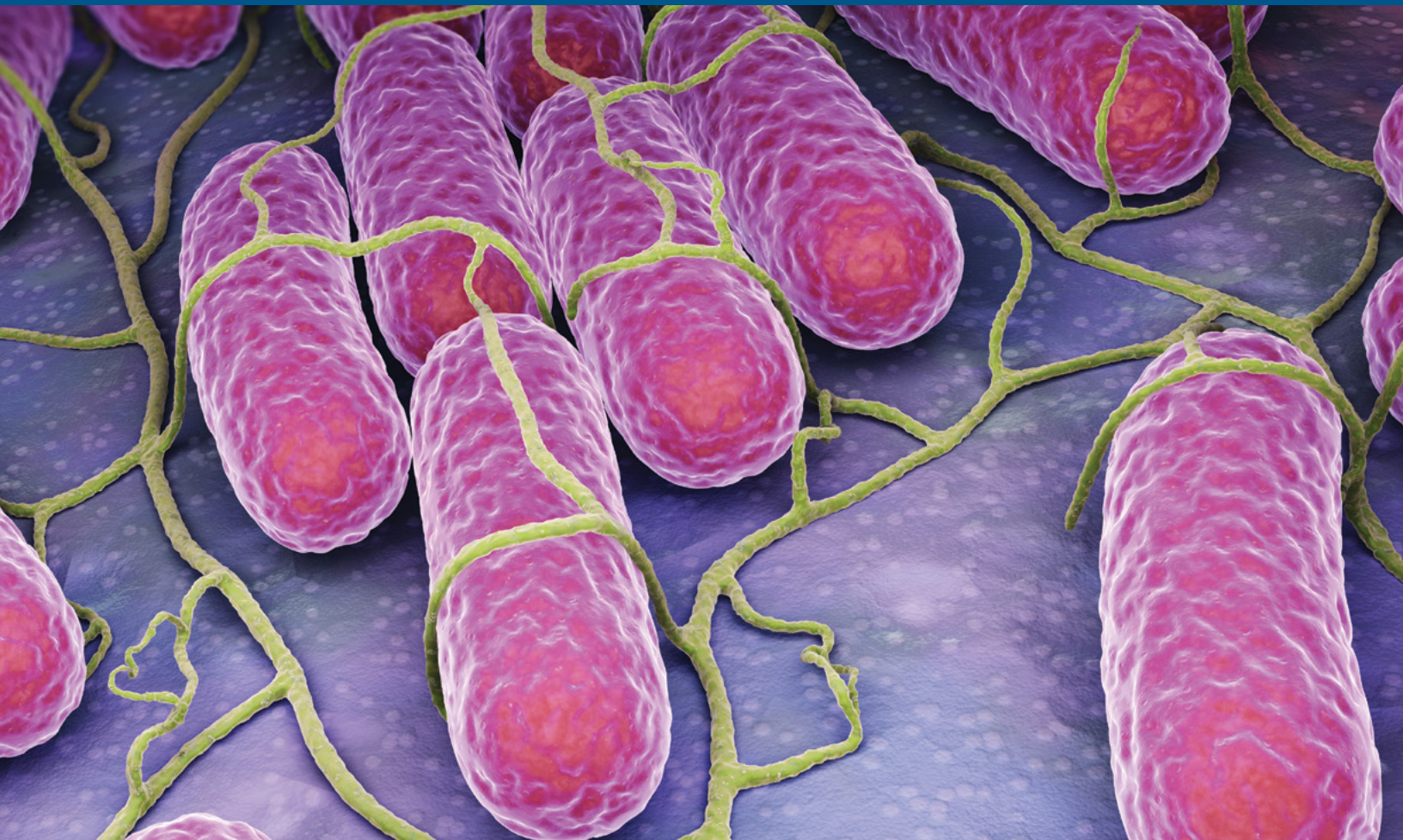
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Identifying antimicrobial resistance patterns is vital to your ability to better understand key pathogenic drivers and more effectively respond to emerging resistance.

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

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



Surveillance standard plate formats

		EUROPE					NARMS			
		GRAM NEGATIVE		GRAM POSITIVE		CAMPYLO BACTER	GRAM NEGATIVE	GRAM POSITIVE		CAMPYLOBACTER
INSTRUMENTS		EUVSEC3	EUVSEC2	EUVENC	EUST2	EUCAMP3	CMV5AGNF	CMV3AGPF	CMV4AGP	CMV/CAMPY
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)	•	•	•	•	•			•	•

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Sensititre EU Surveillance Salmonella/E. coli EUVSEC3 Plate

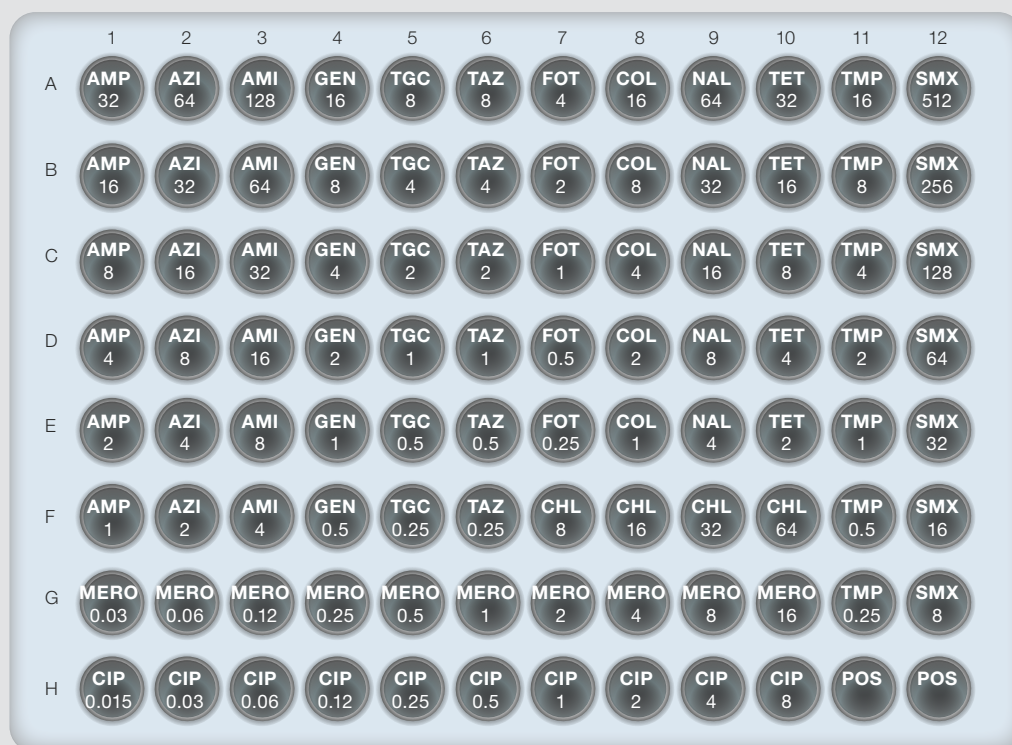
Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Salmonella</i> and <i>E. coli</i> isolates as part of EU surveillance program	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607011	<i>Staphylococcus aureus subsp. aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18 hours

Manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

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

Sensititre EU Surveillance ESBL EUVSEC2 Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing ESBL 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	<i>Escherichia coli</i> ATCC® 25922™
R4603074	<i>Klebsiella pneumoniae</i> ATCC®700603™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
Additional QC strains used for product release	
R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18 hours

Manually read with Sensititre Vizion or Sensititre Manual Viewbox

	1	2	3	4	5	6	7	8	9	10	11	12
A	FOX 0.5	FOX 1	FOX 2	FOX 4	FOX 8	FOX 16	FOX 32	FOX 64	FOT 0.25	FOT 0.5	FOT 1	TRM 128
B	ETP 0.015	ETP 0.03	ETP 0.06	ETP 0.12	ETP 0.25	ETP 0.5	ETP 1	ETP 2	FOT 2	FOT 4	FOT 8	TRM 64
C	IMI 0.12	IMI 0.25	IMI 0.5	IMI 1	IMI 2	IMI 4	IMI 8	IMI 16	FOT 16	FOT 32	FOT 64	TRM 32
D	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	TRM 2	TRM 16
E	TAZ 0.25	TAZ 0.5	TAZ 1	TAZ 2	TAZ 4	TAZ 8	TAZ 16	TAZ 32	TAZ 64	TAZ 128	TRM 1	TRM 8
F	FEP 0.06	FEP 0.12	FEP 0.25	FEP 0.5	FEP 1	FEP 2	FEP 4	FEP 8	FEP 16	FEP 32	TRM 0.5	TRM 4
G	F/C 0.06/4	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	POS
H	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

Antimicrobics

FEP	Cefepime
FOT	Cefotaxime
F/C	Cefotaxime/Clavulanic acid
FOX	Cefoxitin
TAZ	Ceftazidime
T/C	Ceftazidime/Clavulanic acid
ETP	Ertapenem
IMI	Imipenem
MERO	Meropenem
POS	Positive control
TRM	Temocillin

Sensititre EU Surveillance Enterococcus EUVENC Plate

Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Enterococcus</i> isolates as part of EU surveillance program	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
Broth type	Inoculum preparation	R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	R4607011	<i>Staphylococcus aureus subsp. aureus</i> ATCC® 29213™
		Additional QC strains used for product release	
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18-24 hours*

Manually read with Sensititre Vizion or Sensititre 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.

Sensititre EU Surveillance

Staphylococcus EUST2 Plate

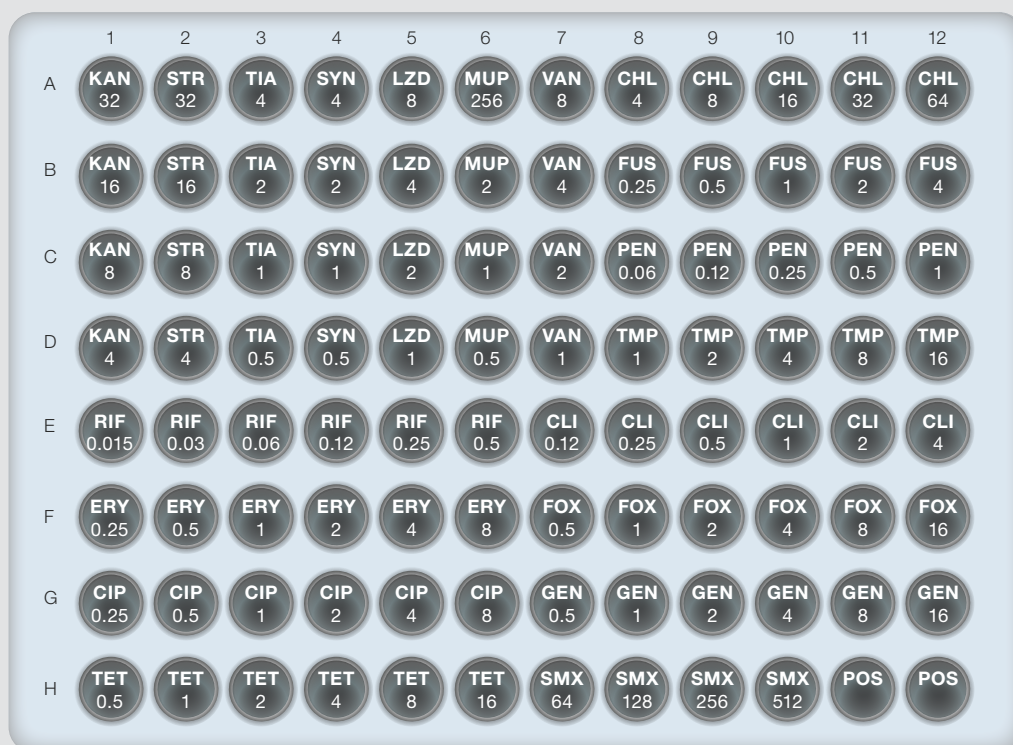
Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Staphylococcus</i> isolates as part of EU surveillance program	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18-24 hours*

Manually read with Sensititre Vizion or Sensititre 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.

Sensititre EU Surveillance

Campylobacter EUCAMP3 Plate

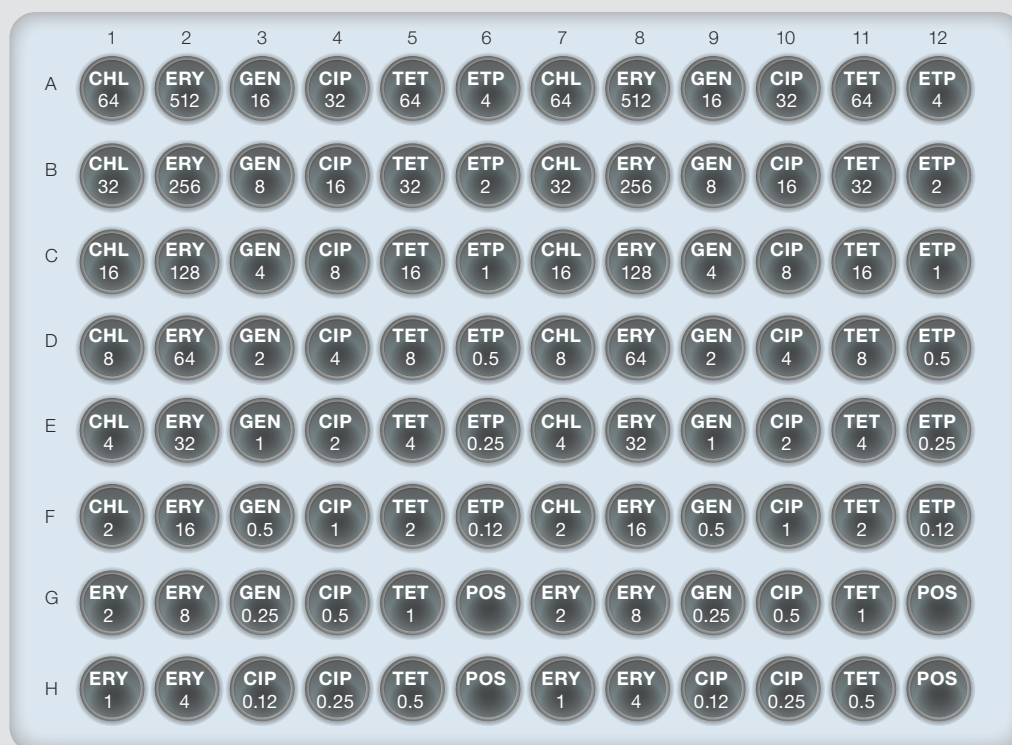
Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Campylobacter</i> isolates as part of EU surveillance program	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4609498	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> ATCC® 33560™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre Mueller Hinton Broth w/ Lysed Horse Blood (CP112-10)	0.5 McFarland Standard (E1041) Sensititre Mueller Hinton Broth 5 mL (T3462-05)	R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™

Put 3-5 colonies into Sensititre MHB 5 mL to reach a 0.5 McFarland Standard, mix 100 µL into Sensititre 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 in a microaerophilic atmosphere* at 35-37°C for 48 hours or at 42°C for 24 hours**

Manually read with Sensititre Vizion or Sensititre Manual Viewbox



Antimicrobics

CHL	Chloramphenicol
CIP	Ciprofloxacin
ETP	Ertapenem
ERY	Erythromycin
GEN	Gentamicin
POS	Positive Control
TET	Tetracycline

*85% N₂, 10% CO₂, 5% O₂. **Do not stack plates more than four high.

Sensititre NARMS Gram Negative CMV5AGNF Plate

Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Salmonella</i> and <i>Escherichia coli</i> 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)	Culti-Loops product code	Organism description
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4601971	<i>Escherichia coli</i> ATCC® 35218™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		Additional QC strains used for product release	
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation		
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)		

Put 3-5 colonies into H₂O 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-CO₂ incubator or Sensititre ARIS HiQ* for 18 hours

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

	1	2	3	4	5	6	7	8	9	10	11	12
A	FOX 32	AZI 16	CHL 16	AXO 64	AXO 0.25	CIP 2	GEN 16	NAL 16	MERO 1	FIS 32	AMP 32	COL 2
B	FOX 16	AZI 8	CHL 8	AXO 32	AUG2 32/16	CIP 1	GEN 8	NAL 8	MERO 0.5	FIS 16	AMP 16	COL 1
C	FOX 8	AZI 4	CHL 4	AXO 16	AUG2 16/8	CIP 0.5	GEN 4	NAL 4	MERO 0.25	SXT 4/76	AMP 8	COL 0.5
D	FOX 4	AZI 2	CHL 2	AXO 8	AUG2 8/4	CIP 0.25	GEN 2	NAL 2	MERO 0.12	SXT 2/38	AMP 4	COL 0.25
E	FOX 2	AZI 1	TET 32	AXO 4	AUG2 4/2	CIP 0.12	GEN 1	NAL 1	MERO 0.06	SXT 1/19	AMP 2	NEG
F	FOX 1	AZI 0.5	TET 16	AXO 2	AUG2 2/1	CIP 0.06	GEN 0.5	NAL 0.5	FIS 256	SXT 0.5/9.5	AMP 1	POS
G	AZI 64	AZI 0.25	TET 8	AXO 1	AUG2 1/0.5	CIP 0.03	GEN 0.25	MERO 4	FIS 128	SXT 0.25/4.75	COL 8	POS
H	AZI 32	CHL 32	TET 4	AXO 0.5	CIP 4	CIP 0.015	NAL 32	MERO 2	FIS 64	SXT 0.12/2.38	COL 4	POS

Antimicrobics

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

Sensititre NARMS Gram Positive CMV3AGPF Plate

Intended use	Read method
Antimicrobial susceptibility plate for testing <i>Enterococcus</i> 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	<i>Enterococcus faecalis</i> ATCC® 29212™
R4601996	<i>Enterococcus faecalis</i> ATCC® 51299™
R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Additional QC strains used for product release	
R4607050	<i>Escherichia coli</i> ATCC® 25922™
R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-CO₂ incubator or Sensititre ARIS HiQ[#] for 18 hours*

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

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

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/Dalfoprisitin
STR	Streptomycin
TET	Tetracycline
TGC	Tigecycline
TYLT	Tylosin tartarate
VAN	Vancomycin

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

Sensititre NARMS Gram Positive CMV4AGP Plate

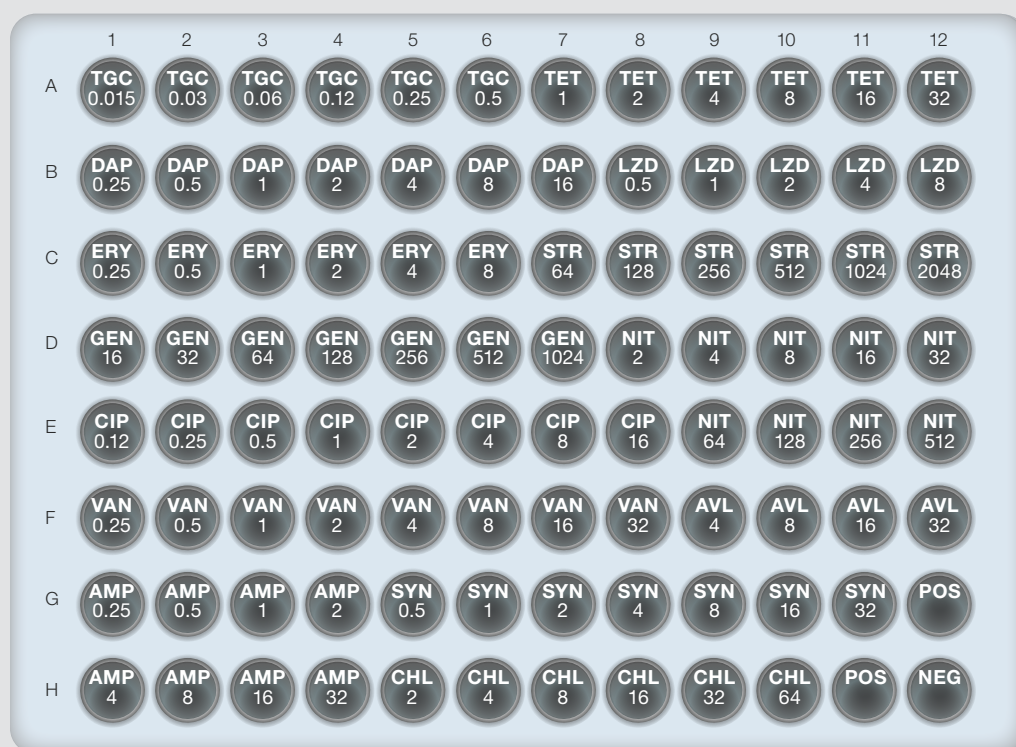
Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Enterococcus</i> isolates as part of the National Antimicrobial Resistance Monitoring System (NARMS) program in the United States	Manual and semi-automated Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	Culti-Loops product code	Organism description
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4601996	<i>Enterococcus faecalis</i> ATCC® 51299™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
Broth type	Inoculum preparation	Additional QC strains used for product release	
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™

Put 3-5 colonies into H₂O 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-CO₂ incubator for 18 hours*

Manually read with Sensititre Vizion or Sensititre 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.

Sensititre NARMS Campylobacter CMVCAMPY Plate

Intended use	Read method	Recommended routine QC strains	
Antimicrobial susceptibility plate for testing <i>Campylobacter</i> isolates 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)	Culti-Loops product code	Organism description
		R4609498	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> ATCC® 33560™
		Additional QC strains used for product release	
		R4607030	<i>Enterococcus faecalis</i> ATCC® 29212™
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
		R4607011	<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC® 29213™
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)		

Put 3-5 colonies into Sensititre MHB 5 mL to reach a 0.5 McFarland Standard, mix 100 µL into Sensititre 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 42°C for 24hrs or 36-37°C for 48hrs

Results can be read using the Sensititre Manual Viewbox or Sensititre Vizion

	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

Customer service and installation

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

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

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Supporting you along your Sensititre journey

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

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

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

Further information will be asked on:

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

Local Technical Support contact details:

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1-800-255-6730 option 2

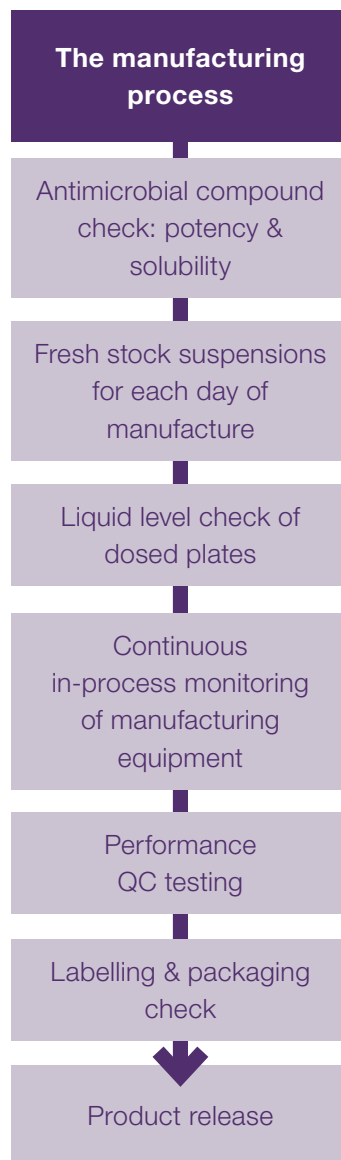
Rest of world

microbiology.techsupport.uk@thermofisher.com
+44 (0)1256 694238

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.



Quality control

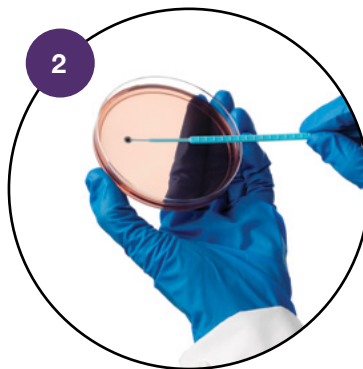
To ensure your laboratory antimicrobial susceptibility testing solutions are providing accurate and reliable results the need for comprehensive Quality Control (QC) testing is paramount. Thermo Scientific™ Culti-Loops™ Quality Control organisms enable quick and safe preparation of cultures for QC testing.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

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

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



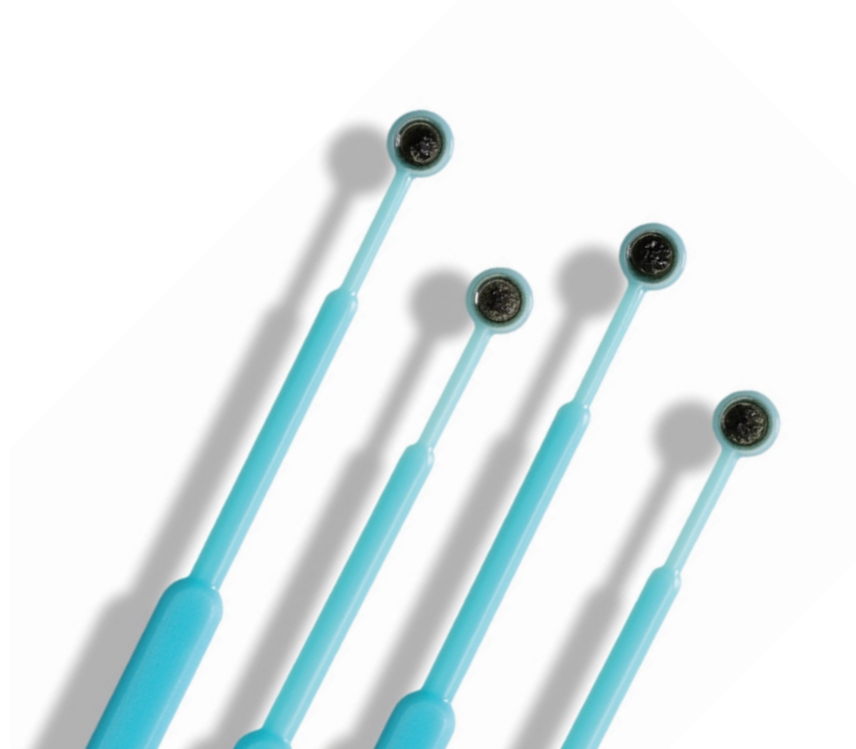
Open package



Apply to warm agar



Incubate



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

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

Culti-Loops part number	Description	ATCC® strain	Characteristics	EUCAST		CLSI	
				Routine testing	Extended testing	Routine testing	Extended testing
NEW	R4601312	<i>Aspergillus flavus</i>	204304™	✓		✓	
NEW	R4601311	<i>Aspergillus fumigatus</i>	204305™	✓			
	R4601250	<i>Bacteroides fragilis</i>	25285™			✓	
	R4601260	<i>Bacteroides thetaiotaomicron</i>	29741™			✓	
	R4609498	<i>Campylobacter jejuni</i>	33560™	✓		✓	
	R4601496	<i>Candida albicans</i>	90028™			✓	
	R4601518	<i>Candida parapsilosis</i>	22019™	✓		✓	
	R4609452	<i>Clostridium difficile</i>	700057™			✓	
	R4601951	<i>Eggerthella lenta</i>	43055™			✓	
	R4607030	<i>Enterococcus faecalis</i>	29212™	✓		✓	✓
	R4601996	<i>Enterococcus faecalis</i>	51299™		✓		✓
NEW	R4601301	<i>Enterococcus faecalis</i>	33186™				✓
NEW	R4601307	<i>Escherichia coli</i>	NCTC 13353			✓	
NEW	R4601314	<i>Escherichia coli</i>	NCTC 13846	✓			
	R4607050	<i>Escherichia coli</i>	25922™	✓		✓	
	R4601971	<i>Escherichia coli</i>	35218™	✓		✓	
	R4603810	<i>Haemophilus influenzae</i>	10211™				✓
	R4603830	<i>Haemophilus influenzae</i>	49247™		✓	✓	
	R4603806	<i>Haemophilus influenzae</i>	49766™	✓		✓	
	R4601520	<i>Issatchenkia orientalis</i>	6258™	✓		✓	
	R4603074	<i>Klebsiella pneumoniae</i>	700603™	✓	✓	✓	
	R4609384	<i>Klebsiella pneumoniae</i>	BAA-1705™			✓	
	R4609385	<i>Klebsiella pneumoniae</i>	BAA-1706™				✓
NEW	R4601316	<i>Klebsiella pneumoniae</i>	BAA-2814™	✓		✓	
	R4609006	<i>Neisseria gonorrhoeae</i>	49226™			✓	
	R4607060	<i>Pseudomonas aeruginosa</i>	27853™	✓		✓	
	R4609389	<i>Staphylococcus aureus</i>	BAA-1708™				✓
	R4607010	<i>Staphylococcus aureus</i>	25923™			✓	✓
	R4607011	<i>Staphylococcus aureus</i>	29213™	✓		✓	✓
	R4609022	<i>Staphylococcus aureus</i>	43300™			✓	
	R4606512	<i>Staphylococcus aureus</i>	BAA-976™			✓	✓
	R4606513	<i>Staphylococcus aureus</i>	BAA-977™				✓
NEW	R4601313	<i>Staphylococcus aureus</i>	NCTC 12493		✓		
	R4609015	<i>Streptococcus pneumoniae</i>	49619™	✓		✓	



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More antimicrobials, more testing options

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

Thermo Scientific Sensititre Standard Formularies – Clinical																																													
Code	Antimicrobial	Gram negative First line				Gram negative Second line						Non-fermenter		Urines		ESBLs	Gram positive					Fastidious		Anaerobes		Yeast					Mycobacteria														
		GN4F	GN6F	GN7F	EUGNF	MDRGN2F	MDRGNX2F	GNX3F	GNX4F	EUMDR0F	EUMDR0XF	DKMGN	EUBGNCOL	NF	EUX2NF	GNUR2F	GNUR3F	ESB1F	FDANDF	GPALL1F	GPALL3F	EUSTAPF	EUEGCF	FR1STENT	STPGF	FDANDSF	HPB1	AN02B	ANAE03	Y02ND	Y03ND	Y08	Y09	Y010	MYC01B	MYC01BI	RAPMWC02	RAPMWC0I	SLOMWC02	SLOMWC0I	NOCARDIA				
FC	5-Flucytosine																												✓	✓	✓	✓	✓									✓			
AMI	Amikacin	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓																				✓	✓	✓	✓	✓	✓	✓	✓	✓			
AMOX	Amoxicillin																					✓							✓																
AUGC	Amoxicillin/ Clavulanic Acid											✓											✓																						
AUG2	Amoxicillin/ Clavulanic Acid 2:1														✓	✓								✓		✓	✓	✓										✓				✓			
AB	Amphotericin B																															✓	✓	✓											
AMP	Ampicillin	✓	✓	✓											✓	✓	✓		✓	✓		✓	✓				✓	✓																	
A/S2	Ampicillin/ Sulbactam	✓	✓	✓				✓					✓														✓	✓																	
AND	Anidulafungin																																												
AZI	Azithromycin																							✓																					
AZT	Aztreonam	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓																												
CAR	Carbenicillin												✓			✓																													
CAS	Caspofungin																													✓	✓	✓	✓	✓											
FAC	Cefaclor																										✓																		
FAZ	Cefazolin	✓	✓	✓												✓	✓						✓																						
FEP	Cefepime	✓	✓	✓	✓			✓		✓	✓		✓	✓	✓		✓							✓		✓												✓							
FDC	Cefiderocol					✓	✓				✓																																		
FIX	Cefixime																										✓																		
FOP	Cefoperazone												✓																																
FOT	Cefotaxime				✓			✓				✓	✓				✓								✓																				
F/C	Cefotaxime/ Clavulanic Acid																✓																												
TANS	Cefotetan Na																											✓																	
FOX	Cefoxitin								✓								✓				✓							✓	✓										✓	✓					
FOXS	Cefoxitin Screen																	✓	✓	✓	✓																								
POD	Cefpodoxime																✓																												
CPT	Ceftaroline																			✓	✓		✓		✓																				
TAZ	Ceftazidime	✓	✓	✓	✓			✓		✓	✓		✓	✓			✓																												
CZA	Ceftazidime/ Avibactam		✓	✓		✓	✓		✓	✓	✓	✓	✓																																
T/C	Ceftazidime/ Clavulanic Acid																✓																												
BPR	Ceftobiprole																						✓																						
C/T	Ceftolozane/ Tazobactam		✓	✓		✓	✓		✓	✓	✓	✓	✓																																
AXO	Ceftriaxone	✓	✓	✓				✓		✓			✓		✓	✓	✓			✓					✓		✓												✓				✓		
FUR	Cefuroxime																								✓		✓																		
CEP	Cephalothin																✓																												
CHL	Chloramphenicol												✓					✓	✓	✓				✓		✓	✓	✓																	
CIP	Ciprofloxacin	✓	✓	✓	✓			✓		✓		✓	✓	✓	✓	✓	✓		✓	✓		✓															✓	✓	✓	✓	✓	✓	✓	✓	✓
CLA	Clarithromycin																		✓	✓	✓						✓										✓	✓	✓	✓	✓	✓	✓	✓	✓
CLI	Clindamycin																		✓	✓	✓		✓	✓	✓																				
CFZ	Clofazimine																		✓	✓	✓																✓		✓						
COL	Colistin*				✓		✓	✓	✓	✓	✓	✓	✓	✓																															
CYC	Cycloserine																																			✓	✓								

Code	Antimicrobial	Gram negative First line					Gram negative Second line						Non-fermenter		Urines		ESBLs	Gram positive					Fastidious		Anaerobes		Yeast					Mycobacteria											
		GN4F	GN6F	GN7F	EUGNF	MDRGN2F	MDRGN2F	GNX3F	GNX4F	EUMDR0F	EUMDR0F	DKMGN	EUBRNCOL	NF	ELUX2NF	GNUR2F	GNUR3F	ESBLF	FDANDPF	GPALL1F	GPALL3F	EUSTAPF	EUECNF	FRISTENT	STR9F	FDANDSF	HRB1	AM02B	ANAE03	YO2ND	YO3ND	YO8	YO9	YO10	MVC0TB	MVC0TB1	RAPMVC01	RAPMVC02	SLOMVC01	SLOMVC02	NOCARDIA		
DAL	Dalbavancin																	✓					✓		✓																		
DAP	Daptomycin																		✓	✓	✓		✓																				
DLX	Delafloxacin					✓	✓																																				
DOR	Doripenem	✓	✓	✓	✓			✓						✓																													
DOX	Doxycycline				✓			✓																													✓	✓	✓	✓	✓		
DT1,2	D-Test																	✓	✓	✓	✓				✓																		
ERV	Eravacycline					✓	✓				✓																																
ERY	Erythromycin																	✓	✓	✓	✓			✓	✓	✓		✓															
ETP	Ertapenem	✓	✓	✓	✓				✓		✓														✓																		
EMB	Ethambutol																																		✓	✓			✓				
ETH	Ethionamide																																		✓	✓				✓			
FZ	Fluconazole																													✓	✓	✓	✓	✓									
FOS+	Fosfomycin						✓				✓																																
FUS	Fusidate																				✓																						
GEN	Gentamicin	✓	✓	✓	✓			✓		✓		✓		✓	✓	✓	✓		✓	✓	✓	✓																					
IMI	Imipenem	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓			✓										✓	✓	✓								✓	✓			✓		
IMR	Imipenem/ relebactam					✓	✓																																				
INH	Isoniazid																																		✓	✓				✓			
IZ	Itraconazole																													✓	✓	✓	✓	✓									
KAN	Kanamycin																														✓	✓											
KZ	Ketoconazole																															✓											
LEVO	Levofloxacin	✓	✓	✓	✓	✓	✓	✓					✓	✓					✓	✓	✓	✓	✓	✓	✓		✓																
LZD	Linezolid																	✓	✓	✓	✓	✓	✓	✓	✓	✓											✓	✓	✓	✓	✓		
LOM	Lomefloxacin												✓																														
MERO	Meropenem	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓							✓		✓	✓																
MEV	Meropenem/ vaborbactam					✓	✓				✓																																
MRD	Metronidazole																										✓	✓															
MEZ	Mezlocillin																										✓																
MF	Micafungin																														✓		✓	✓									
MIN	Minocycline	✓	✓	✓	✓			✓																															✓	✓		✓	
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*				✓			✓						✓																													
PZ	Posaconazole																														✓	✓	✓										
SYN	Quinupristin/ dalopristin																		✓			✓																					
RFB	Rifabutin																																			✓	✓			✓	✓		
RIF	Rifampin																		✓	✓	✓		✓												✓	✓			✓	✓			
SPA	Sparfloxacin																									✓																	
STR	Streptomycin																		✓	✓		✓																✓	✓			✓	
FIS	Sulfisoxazole												✓																														
TZD	Tedizolid																	✓					✓		✓																		
TEI	Teicoplanin																				✓	✓	✓			✓																	
TLV	Telavancin																	✓			✓				✓																		

Code	Antimicrobial	Gram negative First line				Gram negative Second line						Non-fermenter		Urines		ESBLs	Gram positive					Fastidious		Anaerobes		Yeast					Mycobacteria											
		GN4F	GN6F	GN7F	EU6NF	MOR6NF2F	MOR6NF2F	GNX3F	GNX4F	EU6DR0F	EU6DR0XF	DKMN	EUR6NCOL	NF	EU6X2NF	GNUR2F	GNUR3F	ESB1F	FDANDPF	GPALL1F	GPALL3F	EU6TAPF	EU6ENCF	FR1STENT	STP6F	FDANDSF	HPB1	AN02B	ANAER03	Y02ND	Y03ND	Y08	Y09	Y010	MVC00TB	MVC00TB1	RAPMVC02	RAPMVC01	SLOWVC02	SLOWVC01	NCARDIA	
TLC	Telavancin w/ Tween mimic																			✓																						
TRM	Temocillin								✓																																	
TET	Tetracycline	✓	✓	✓									✓							✓	✓	✓		✓		✓	✓	✓														
TIC	Ticarcillin												✓																													
TIM2	Ticarcillin/ Clavulanic Acid	✓			✓			✓					✓																													
TGC	Tigecycline	✓	✓	✓	✓			✓	✓	✓	✓			✓					✓	✓	✓	✓		✓													✓	✓				
TOB	Tobramycin	✓	✓	✓	✓			✓		✓	✓		✓	✓					✓	✓	✓																✓	✓			✓	
TMP	Trimethoprim																					✓																				
SXT	Trimethoprim/ Sulfamethoxazole	✓	✓	✓	✓			✓			✓		✓	✓	✓	✓			✓	✓	✓		✓		✓													✓	✓		✓	
VAN	Vancomycin																	✓	✓	✓	✓	✓	✓	✓	✓		✓															
VOR	Voriconazole																											✓	✓	✓	✓	✓	✓	✓								

Thermo Scientific Sensititre Standard Formularies – Veterinary

Companion					Bovine/ porcine	Avian	Equine	Urine (all)	Bovine (mastitis)	Topical (all)
Code	Antimicrobial	Gram negative	Gram positive	Gram negative/positive						
		COMP6NF	COMP6PF	COMP6NF	BOP07F	AVIAN1F	EQUIN2F	CMN18URF	CMN1AMAF	JOEY2
AMI	Amikacin	✓	✓	✓			✓			✓
AMOX	Amoxicillin					✓				
AUG2	Amoxicillin/ Clavulanic Acid 2:1	✓	✓	✓				✓		
AMP	Ampicillin	✓	✓	✓	✓		✓	✓		
BAC	Bacitracin									✓
FAZ	Cefazolin	✓	✓	✓			✓			✓
FEP	Cefepime							✓		✓
FOT	Cefotaxime							✓		
FOV	Cefovecin	✓	✓	✓						
FOX	Cefoxitin			✓						
POD	Cefpodoxime	✓	✓	✓						
TAZ	Ceftazidime	✓					✓			
XNL	Ceftiofur			✓	✓	✓	✓	✓		✓
LEX	Cephalexin	✓						✓		
CEP	Cephalothin		✓	✓					✓	
CHL	Chloramphenicol	✓	✓				✓			✓
CIP	Ciprofloxacin									✓
CLA	Clarithromycin						✓			
CLI	Clindamycin		✓	✓	✓	✓				
DANO	Danofloxacin				✓					
DOX	Doxycycline	✓	✓	✓			✓			✓
ENRO	Enrofloxacin	✓	✓	✓	✓	✓	✓			
ERY	Erythromycin			✓		✓			✓	
FFN	Florfenicol				✓	✓				
GEN	Gentamicin	✓	✓	✓	✓	✓	✓			✓
IMI	Imipenem	✓	✓	✓			✓			
MAR	Marbofloxacin	✓	✓	✓						
MIN	Minocycline		✓				✓			
MXF	Moxifloxacin									✓
NEO	Neomycin				✓	✓				✓

Companion					Bovine/ porcine	Avian	Equine	Urine (all)	Bovine (mastitis)	Topical (all)
Code	Antimicrobial	Gram negative	Gram positive	Gram negative/positive						
		COMP6NF	COMP6PF	COMP6NF	BOP07F	AVIAN1F	EQUIN2F	CMN18URF	CMN1AMAF	JOEY2
NIT	Nitrofurantoin		✓							
NOV	Novobiocin					✓				
OFL	Ofloxacin									✓
ORB	Orbifloxacin	✓								
OXA+	Oxacillin + 2% NaCl		✓	✓			✓		✓	
OXY	Oxytetracycline					✓				✓
PEN	Penicillin		✓	✓	✓	✓	✓		✓	
P/N	Penicillin/ Novobiocin								✓	
P/T4	Piperacillin/ Tazobactam	✓								
PIRL	Pirlimycin								✓	
POL	Polymixin B*									✓
PRA	Pradofloxacin	✓	✓							
RIF	Rifampin		✓	✓					✓	
SPE	Spectinomycin				✓	✓				
STR	Streptomycin					✓				
SDM	Sulphadime- thoxine				✓	✓			✓	
STZ	Sulphathiazole					✓				
TET	Tetracycline	✓	✓		✓	✓	✓		✓	
TIA	Tiamulin				✓					
TIC	Ticarcillin			✓						✓
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

Code	Antimicrobial	Europe					NARMS			
		Gram negative		Gram positive		Campylobacter	Gram negative	Gram positive		Campylobacter
		EU/SEC3	EU/SEC2	EU/ENC	EU/ST2	EU/CAMP3	CMV/AGNF	CMV/AGPF	CMV/AGP	CMV/CAMPY
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	Lincomycin							✓		
MERO	Meropenem	✓	✓				✓			✓
MUP	Mupirocin				✓					
NAL	Nalidixic Acid	✓					✓			✓
NIT	Nitrofurantoin							✓	✓	
PEN	Penicillin				✓			✓		
SYN	Quinupristin/ Dalbapristin			✓	✓			✓	✓	
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			✓	✓			✓	✓	

*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
ARIS HiQ Instrument	Each	V4000
Vizion Instrument	Each	V2021
OptiRead Instrument	Each	V3030
SWIN Software	Each	SW4000, SW4000GBL
SWIN Software PC Replacement	Each	6100310SR
SWIN Software Epidemiology Module	Each	SW1203
Sensititre Complete System	Each	V4000-VZ
Laser Printer	Each	615032, SW4000PRN
LED-LCD Multi TOUCH Monitor	Each	SW1303, SW1304, SW1305
Manual Viewbox	Each	V4007
Electronic Multichannel Pipette	Each	V4009
Sensititre Broths		
Demineralized Water	5 mL/box of 10	T3339-10
	5 mL/box of 100	T3339
Demineralized Water with Glass Beads	5 mL/box of 10	T3493**
	5 mL/box of 10	T3492*
HTM Broth	11 mL/box of 10	T3470
Middlebrook 7H9 with OADC	11 mL/box of 10	T3441**
	11 mL/box of 10	T3440*
Mueller-Hinton Broth with Lysed Horseblood	11 mL/box of 10	CP11410
	11 mL/box of 10	CP112-10
Mueller-Hinton Broth with OADC	11 mL/box of 10	T8006**
	11 mL/box of 10	T8005*
Mueller-Hinton Broth with TES	5 mL/box of 10	T34620510
	5 mL/box of 100	T3462-05
	11 mL/box of 10	T3462-10
	11 mL/box of 100	T3462
Saline Tween with Glass Beads	5 mL/box of 10	T3491**
	5 mL/box of 10	T3490*
Supplemented Brucella Broth	11 mL/box of 10	T3450**
	11 mL/box of 10	T3451*
Veterinary Fastidious Medium	11 mL/box of 10	T3460
Veterinary Fastidious MHF Medium (MHF-Y)	11 mL/box of 10	T3461
YeastOne Broth	11 mL/box of 10	Y3462
Sensititre Accessories		
0.5 McFarland Standard	Each	E1041
Adhesive seals for anaerobic plates - perforated	10/pack	G522EA#
	10/pack	G522E†
Adhesive seals for AST plates	10/pack	G520NA#
	10/pack	G520N†
Doseheads	100/box	E3010
Pipetting Reservoirs	200/box	E1032

*Research use only. ** IVD/CE labelled. #Available in North America. † Available in rest of world.

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ThermoFisher
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