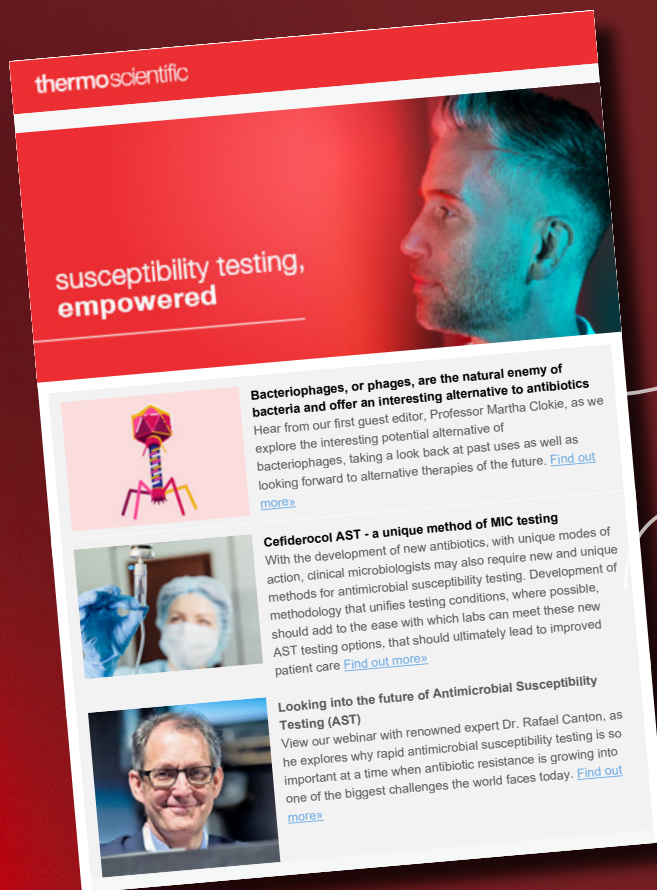


# Empowering the people who dedicate their lives to microbiology.

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



Up and coming trends in the fight against AMR


The latest on antimicrobials

Hear from your peers

## AST news direct to your inbox

Sign-up to our quarterly AST newsletter and let us bring the news to you:

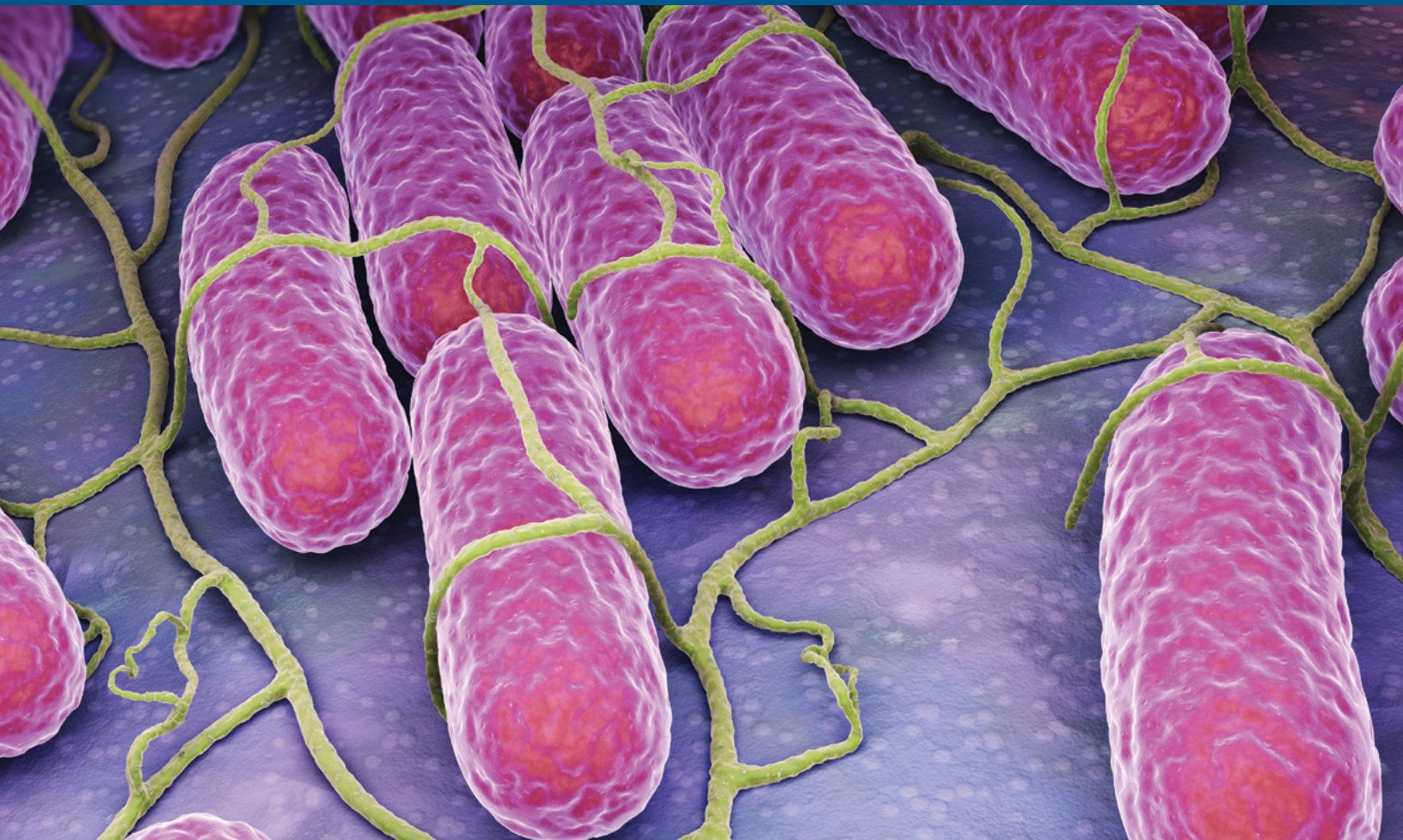
[www.thermofisher.com/ASTempowered](http://www.thermofisher.com/ASTempowered)



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	EJUST2	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)	•	•	•	•	•			•	•

Jump to page ►

62

63

64

65

66

67

68

69

70

# Sensititre EU Surveillance

## Salmonella/E. coli EUVSEC3 Plate

<b>Intended use</b>	<b>Read method</b>	<b>Recommended routine QC strains</b>	
Antimicrobial susceptibility plate for testing <i>Salmonella</i> and <i>E. coli</i> isolates as part of EU surveillance program	<b>Manual and semi-automated</b> Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	<b>Culti-Loops product code</b>	<b>Organism description</b>
		R4607050	<i>Escherichia coli</i> ATCC® 25922™
		R4607060	<i>Pseudomonas aeruginosa</i> ATCC® 27853™
<b>Broth type</b>	<b>Inoculum preparation</b>	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 H<sub>2</sub>O to measure a 0.5 McFarland using the Nephelometer, Mix 10 µL of suspension into MHB

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

Seal Sensititre plate and incubate at 34-36°C in a non-CO<sub>2</sub> 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	AMP 32	AZI 64	AMI 128	GEN 16	TGC 8	TAZ 8	FOT 4	COL 16	NAL 64	TET 32	TMP 16	SMX 512
B	AMP 16	AZI 32	AMI 64	GEN 8	TGC 4	TAZ 4	FOT 2	COL 8	NAL 32	TET 16	TMP 8	SMX 256
C	AMP 8	AZI 16	AMI 32	GEN 4	TGC 2	TAZ 2	FOT 1	COL 4	NAL 16	TET 8	TMP 4	SMX 128
D	AMP 4	AZI 8	AMI 16	GEN 2	TGC 1	TAZ 1	FOT 0.5	COL 2	NAL 8	TET 4	TMP 2	SMX 64
E	AMP 2	AZI 4	AMI 8	GEN 1	TGC 0.5	TAZ 0.5	FOT 0.25	COL 1	NAL 4	TET 2	TMP 1	SMX 32
F	AMP 1	AZI 2	AMI 4	GEN 0.5	TGC 0.25	TAZ 0.25	CHL 8	CHL 16	CHL 32	CHL 64	TMP 0.5	SMX 16
G	MERO 0.03	MERO 0.06	MERO 0.12	MERO 0.25	MERO 0.5	MERO 1	MERO 2	MERO 4	MERO 8	MERO 16	TMP 0.25	SMX 8
H	CIP 0.015	CIP 0.03	CIP 0.06	CIP 0.12	CIP 0.25	CIP 0.5	CIP 1	CIP 2	CIP 4	CIP 8	POS	POS

### Antimicrobics

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

# Sensititre EU Surveillance ESBL EUVSEC2 Plate

<b>Intended use</b>	<b>Read method</b>	<b>Recommended routine QC strains</b>	
Antimicrobial susceptibility plate for testing ESBL isolates as part of EU surveillance program	<b>Manual and semi-automated</b> Sensititre Vizion (V2021) Sensititre Manual Viewbox (V4007)	<b>Culti-Loops product code</b>	<b>Organism description</b>
<b>Broth type</b>	<b>Inoculum preparation</b>	R4607050	<i>Escherichia coli</i> ATCC® 25922™
Sensititre Mueller Hinton Broth (T3462)	0.5 McFarland Standard (E1041) Sensititre Sterile Water (T3339)	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 H<sub>2</sub>O to measure a 0.5 McFarland using the Nephelometer, mix 10 µL of suspension into MHB

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

Seal Sensititre plate and incubate at 34-36°C in a non-CO<sub>2</sub> 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

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