### Fast detection of ESBL-producing organisms

# ey

### Prevention saves lives, saves time, saves money

### Thermo Scientific<sup>™</sup> Spectra<sup>™</sup> ESBL Medium

An innovative must-have for HAI surveillance programs, Spectra ESBL is a selective and differential growth medium for use in primary isolation and presumptive identification of extended-spectrum beta-lactamase (ESBL)-producing organisms.

### **Dynamic infection prevention & control**

- Faster screening facilitates earlier intervention
- More cost-effective than screening with antimicrobial susceptibility testing (AST) methods

### Streamlined workflow for targeted, active surveillance

- Screen positive within 18 to 24 hours directly from perirectal swabs or fresh stool specimen
- Easier interpretation and less screening work up compared to traditional methods
- No special handling required, not light sensitive

### Performance

• More than one thousand rectal swabs or fecal samples from three hospitals throughout the US were evaluated on Spectra ESBL, with the following results:

Reported clinical performance 24 hours		
Sensitivity	Specificity	
98%	89%	

### Superior sensitivity & specificity

- High sensitivity for effective infection prevention and control programs
- High specificity reduces costs incurred due to unnecessary isolation or additional testing

The Centers for Disease Control and Prevention (CDC) classifies ESBLproducing organisms as a serious threat that requires prompt and sustained action. Nineteen percent of healthcareassociated *Enterobacteriaceae* infections are caused by ESBLproducing organisms<sup>1</sup>, and colonization rates with ESBL-producing *Enterobacteriaceae* are increasing<sup>2</sup>.

The treatment of choice for ESBLproducing organisms are carbapenems, which makes intervention before infection even more critical, as increased use of carbapenems can lead to carbapenem-resistant organisms, which are resistant to all or nearly all available antibiotics<sup>3,1</sup>.



## Stopping the spread of ESBL-producing organisms requires an effective infection prevention program

Thermo Fisher Scientific offers a full range of ESBL screening and testing solutions including the Thermo Scientific<sup>™</sup> Sensititre<sup>™</sup> System for susceptibility testing. Our expertise is backed by stringent quality assurance, reliable service, on-time delivery and superior customer support.



### **Spectra Ready-Poured Plates**

### **Ordering Information**

Description	Packaging	Ref
Spectra™ ESBI	10 plates/Pk	R01810
Opeetra LODE	100 plates/Pk	R01811

### **Additional Products**

### **Ordering Information**

Description	Packaging	Ref
Thermo Scientific <sup>™</sup> Culti-Loops <sup>™</sup> Klebsiella pneumoniae ATCC <sup>®</sup> 700603 <sup>†</sup>	5 loops/Pk	R4603074
Culti-Loops Escherichia coli ATCC <sup>®</sup> 25922 <sup>†</sup>	5 loops/Pk	R4607050
Culti-Loops Echerichia coli ATCC <sup>®</sup> BAA-201	5 loops/Pk	R4609482
Culti-Loops P. mirabilis 511-116	5 loops/Pk	R4608088
Saline 0.85% (1mL)	20/Pk	R064432
Oxoid <sup>™</sup> Cefpodoxime Antimicrobial Susceptibility Disks	50X5 cart./Pk	CT1612B
Oxoid Ceftazidime Antimicrobial Susceptibility Disks	50X5 cart./Pk	CT0412B
Mueller Hinton Agar (15X150mm)	10/Pk	R04050
Thermo Scientific <sup>™</sup> Sensititre <sup>™</sup> Expanded Spectrum Beta-lactamase Plate	10/Pk	ESB1F

### References:

1. http://www.cdc.gov/drugresistance/threat-report-2013/pdf/ar-threats-2013-508.pdf retrieved on March 10, 2014. 2. Reddy, P., Malczynski, A., Obias, A., Reiner, S., Jin, N., Guang, J., et al. (2007). Screening for Extended-Spectrum Beta-Lactamase-Producing Enterobacteriaceae among High-Risk Patients and Rates of Seubsequent Bacteremia. *Clinical Infectious Diseases*, 846-852. 3. David L. Paterson and Robert A. Bonomo (2005). Extended-Spectrum-Lactamases: a Clinical Update, *Clin. Microbiol.* Rev. 18(4):657. DOI: 10.1128/CMR.18.4.657-686.

To learn more about the Thermo Scientific Spectra range of chromogenic media and the fight against the spread of deadly organisms, please visit **thermofisher.com/preparedmedia** 

#### † ATCC Licensed Derivative

©2017 Thermo Fisher Scientific Inc. All rights reserved. The ATCC Licensed Derivative® Emblem, the ATCC Licensed Derivative® word mark, and the ATCC catalog marks are trademarks of ATCC. Thermo Fisher Scientific Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures. All trademarks are property of Thermo Fisher Scientic and its subsidiaries unless otherwise specified.

**Contact Information:** microbiology@thermofisher.com USA +800 255 6730

991-259 May 2017

