CHROMagar™ mSuperCARBA™

For detection and isolation of Carbapenem-Resistant *Enterobacteriaceae* (CRE)





CRE is an increasing threat

CRE is becoming an increasing threat

Enterobacteriaceae, a significant bacterial order, often cause infections in healthcare settings. CRE infections are difficult to treat and can be resistant to all antibiotics, posing a serious public health risk.

COMMON ENTEROBACTERALES SPECIES:

- Escherichia coli
- Klebsiella pneumoniae
- Enterobacter cloacae
- Citrobacter freundii

Impacts of CRE infection



Pneumonia



Bloodstream infection

High Mortality Rates in Severe CRE Infections

CARBAPENEMASES MOST COMMONLY IDENTIFIED CRE • OXA-48-type • OXA-244 • KPC • NDM • VIM

30 to 75%¹

Mortality rates have been reported in patients with severe CRE infections



Mortality rates have been observed in patients with CRE bloodstream infection

An increasingly worrying threat

Confirmed CRE *E. coli* infections with antibiotic resistance testing per million population² :

Bacteriologically confirmed infections with interpretable antibiotic susceptibility test per million population :





CHROMagar[™] mSuperCARBA[™] is a selective and differential chromogenic culture medium, intended for use in the qualitative direct detection of gastrointestinal colonization with carbapenemresistant Enterobacteria (CRE).

Carbapenem-resistant Escherichia coli > dark pink to reddish

Carbapenem-resistant Klebsiella, Enterobacter. Citrobacter > metallic blue



> cream, opaque Carbapenem-resistant Pseudomonas

> translucent cream to green



Medium performance



HIGHLY SENSITIVE :

Detects the majority of CROs, including OXA-244, OXA-48, and OXA-48-like variants, after overnight incubation



IMPRESSIVE LIMIT OF DETECTION :

10 CFU/mL



HIGHLY SELECTIVE AND SPECIFIC :

The medium inhibits not only beta-lactam susceptible bacteria but also most ESBL and AmpC hyperproducers.

SAMPLES :

The test is performed with rectal swab and stools from patients.



RESULTS:

Can be interpreted after 18-24 h of aerobic incubation at 35-37 °C



SUPPLEMENTS: Are provided



A.I ready :

Compatible with multi-plate techniques and bacterial identification systems

Carbapenem-resistant Enterobacteriaceae

Global AMR data

García-Fernández et al., 2017. Diagn Microbiol Infect Dis.

For Fighting Resistance: Empowering Detection

CHROMagar[™]has developed a range of selective culture media specifically engineered to identify bacteria expressing various types of antibiotic resistance.



CHROMagar™ Acinetobacter



CHROMagar™ COL-*APSE*



CHROMagar™ MH Orientation



CHROMagar™ MRSA



CHROMagar™ ESBL



CHROMagar™ Staph aureus



CHROMagar™ LIN-R



CHROMagar™ VRE

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Reference contact:



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