

COLOREX™

COLOREX™ mSuperCARBA™



For the detection and isolation
of *Carbapenem*-resistant
Enterobacterales (CRE) * RUO



Microbiology in Color

COLOREX™ mSuperCARBA™

For detection and isolation of Carbapenem-resistant Enterobacterales (CRE) *Research Use Only

BACKGROUND: Addressing the Threat of Carbapenem-resistant Enterobacterales (CRE)

The Centers for Disease Control and Prevention (CDC) underscore the severity of Carbapenem-resistant Enterobacterales (CRE) infections, emphasizing their resistance to β -lactam agents and most antimicrobial classes. With limited treatment options and the potential for healthcare-associated outbreaks, identifying and isolating patients colonized with CRE becomes crucial to prevent transmission.

In 2007, CHROMagar™ pioneered the first chromogenic medium targeting carbapenem-resistant bacteria, primarily focusing on KPC-enzymes. However, the landscape of multidrug-resistant organisms (MDRO) has evolved, necessitating enhanced detection capabilities for the challenging identification of low-level carbapenemases.

Dr. Alain Rambach and Dr. Patrice Nordmann collaborated to develop COLOREX™ mSuperCARBA™, a specialized chromogenic medium representing the next generation in carbapenemase detection. This medium achieves unprecedented performance, detecting a broad spectrum of carbapenemases, including KPC, NDM, VIM, IMP, OXA, and more, even at low concentrations (10 CFU/ml) for weakly expressed carbapenemases, like OXA-48 and its variants.

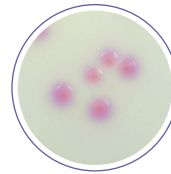
MEDIUM PERFORMANCE: Elevating sensitivity and specificity

- **HIGHLY SENSITIVE:** COLOREX™ mSuperCARBA™ exhibits remarkable sensitivity, detecting most carbapenemases, including challenging ones like OXA-48 and its variants, after an overnight incubation.
- **IMPRESSIVE LIMIT OF DETECTION:** With an extraordinary limit of detection at 10 CFU/ml, this chromogenic medium sets a new standard for identifying even the lowest concentrations of carbapenemase-producing bacteria.
- **HIGHLY SELECTIVE AND SPECIFIC:** The medium not only inhibits beta-lactam susceptible bacteria, but also effectively targets most ESBL and AmpC hyperproducers. This heightened selectivity ensures that COLOREX™ mSuperCARBA™ is a precise tool for identifying carbapenemase-producing bacteria.

POWDER MEDIUM DESCRIPTION

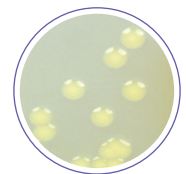
Powder Base	Total..... 42.5 g/L	
	Agar 15.0	
	Peptones..... 20.0	
	Salt..... 5.0	
	Chromogenic and selective mix 0.8	
	Growth factors.....1.7	
	Storage at 15/30°C - pH: 7.2 +/-0.2	
	Shelf Life..... 2 years	
+ 2 Supplements (included in the pack)	1st: Liquid form 2ml/L	2nd: Powder.....0.25g/L
	Storage at 15/30°C	Storage at 2/8°C
	Shelf Life.....3 years	Shelf Life.....2 years
Usual Samples	Stools, urine, rectal swabs	
Procedure	Direct Streaking. Incubation 18-24h at 37°C Aerobic conditions.	

PLATE READING



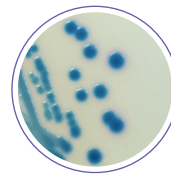
CPE *E. coli*

dark pink to reddish



CPE *Acinetobacter*

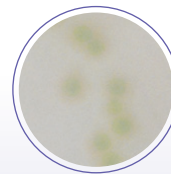
translucent cream to blue



CPE *Klebsiella, Enterobacter, Citrobacter*

metallic blue

Carba sensitive strains are inhibited



CPE *Pseudomonas*

translucent cream to blue

COLOREX™

Plates Made with the Original CHROMagar™ Powder

CHROMAGAR, Paris - France

www.COLOREX-Media.com

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