

IVD solutions through partnership



CHROMagar™ mSuperCARBA™

For detection and isolation of Carbapenemase-producing *Enterobacteriaceae* (CPE)

CHROMagar™
The Chromogenic Media Pioneer

● CHROMagar™ mSuperCARBA™

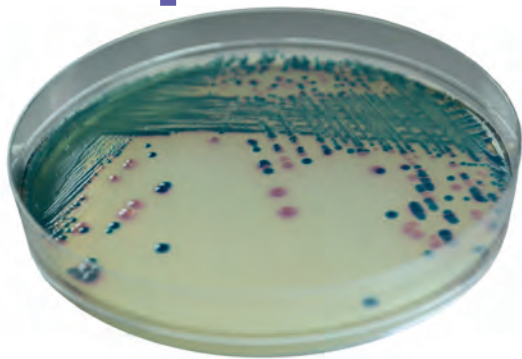

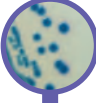
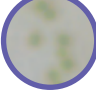



Plate Reading

-  • CPE *E.coli*
→ dark pink to reddish
-  • CPE *Klebsiella*, *Enterobacter*,
Citrobacter
→ metallic blue
-  • CPE *Pseudomonas*
→ translucent cream to blue
-  • CPE *Acinetobacter*
→ cream, opaque

For detection and isolation of Carbapenemase-producing *Enterobacteriaceae* (CPE)

Background

CDC: «Carbapenem-resistant *Enterobacteriaceae* (CRE) are usually resistant to all β -lactam agents as well as most other classes of antimicrobial agents. The treatment options for patients infected with CRE are very limited. Healthcare-associated outbreaks of CRE have been reported. Patients colonized with CRE are thought to be a source of transmission in the healthcare setting. Identifying patients who are colonized with CRE and placing these patients in isolation precautions may be an important step in preventing transmission».

CHROMagar launched in 2007 the first chromogenic medium for the detection of carbapenem-resistant bacteria, particularly targeting KPC-enzymes. Since then, many other carbapenemases have been spreading around the world and therefore there was a need to address today the difficult detection of low level carbapenemases.

Alain Rambach and Patrice Nordmann have joined their efforts to develop a highly sensitive chromogenic medium, CHROMagar™ mSuperCARBA™, the new generation of chromogenic media that reaches unprecedented performances: detection of a large variety of carbapenemases KPC, NDM, VIM, IMP, OXA... with an impressive limit of detection (10 CFU/mL) even for weakly expressed carbapenemases like OXA-48, while maintaining a high level of selectivity.

Medium Performance

- 1 **Highly sensitive**
Most carbapenemases (including OXA-48 and OXA-48 like) detected after overnight incubation.
- 2 **Impressive limit of detection**
10 CFU/mL
- 3 **Highly sensitive and specific**
Not only beta-lactam susceptible bacteria are inhibited, but also most of the ESBL and AmpC hyperproducers are inhibited, rendering the tool very specific for carbapenemase-producing bacteria.

Medium Description

Powder Base CHROMagar Orientation	Total 42.5 g/L	
	Agar 15.0	
+	Peptones 20.0	
	Salt..... 5.0	
2 Supplements (included in the pack)	Chromogenic and selective mix 0.8	
	Growth factors 1.7	
Storage at 15/30 °C - pH: 7.2 +/-0.2		
Shelf Life > 18 months		
1 st : Liquid form..... 2mL/L		2 nd : Powder..... 0.25 g/L
Storage at 15/30 °C		Storage at 2/8 °C
Shelf Life..... > 18 months		Shelf Life..... > 18 months

Usual Samples	stools, urine, rectal swabs
Procedure	Direct Streaking. Incubation 18-24 h at 35-37 °C. Aerobic conditions

Scientific Publications on this product: available on www.CHROMagar.com
Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com



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Ordering Information

Product	Order Code
CHROMagar™ mSuperCARBA™ dry media, 5 liter	15SC172
CHROMagar™ mSuperCARBA™ ready to use plates, 20 pcs.	201473