

CHROMOGENIC CULTURE MEDIA FOR CLINICAL ROUTINE & RESISTANT BACTERIA

CHROMagar™
The Chromogenic Media Pioneer



SOLUTIONS FOR CLINICAL ROUTINE

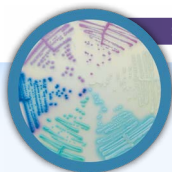
EXCLUSIVE

CHROMagar™ Candida Plus

For detection and differentiation of major clinical *Candida* species, including *C. auris*

SENSITIVITY $\approx 100\%^1$ SPECIFICITY $\approx 100\%^1$

CE
IVD



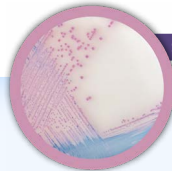
<i>C. auris</i> Light blue with blue halo	<i>C. tropicalis</i> Metallic blue with pink halo	<i>C. glabrata</i> Mauve
<i>C. albicans</i> Green-blue	<i>C. krusei</i> Pink and fuzzy	

CHROMagar™ Salmonella

For detection and isolation of *Salmonella* species, including *S. Typhi* and *S. Paratyphi*

SENSITIVITY 95%³ SPECIFICITY 88,9%³

CE
IVD



<i>Salmonella</i> including <i>S. Typhi</i> Mauve	Other <i>bacteria</i> Blue, colorless or inhibited
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CHROMagar™ STEC

For detection of Shiga toxin-producing *E. coli* (STEC)

SENSITIVITY 91,4%⁵ SPECIFICITY 86,7%⁵

CE
IVD



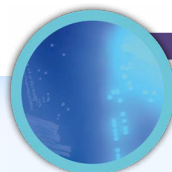
Most common STEC serotypes Mauve	Other <i>enterobacteriaceae</i> Colorless, blue or inhibited
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CHROMagar™ C.difficile

For detection of *Clostridioides difficile*

SENSITIVITY 95,4%⁷ SPECIFICITY 88,9%⁷

CE
IVD



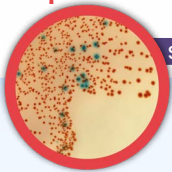
<i>C. difficile</i> Colorless and fluorescent under UV light at 365nm	Other <i>bacteria</i> Colorless, not fluorescent or inhibited
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CHROMagar™ StrepA

For screening of Group A *Streptococci* in throat samples

SENSITIVITY 96,7%⁸ SPECIFICITY $\approx 100\%^8$

CE
IVD



Group A <i>Streptococcus</i> Orange to red	Other oral <i>Streptococci</i> Colorless or blue
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CHROMagar™ Staph aureus

For isolation and direct differentiation of *Staphylococcus aureus*

SENSITIVITY 95,4%¹⁰ SPECIFICITY 99,4%¹⁰

CE
IVD



<i>Staphylococcus aureus</i> Pink to mauve	Other <i>bacteria</i> Colorless, blue or inhibited
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CHROMagar™ Orientation

For isolation and differentiation of urinary tract pathogens

SENSITIVITY $\approx 100\%^2$ SPECIFICITY 98%²

CE
IVD



<i>E. coli</i> Dark pink to reddish	<i>Enterococcus</i> Turquoise blue	<i>Candida albicans</i> Colorless
<i>Klebsiella</i> , <i>Enterobacter</i> , <i>Serratia</i> Metallic blue	<i>S. aureus</i> Golden, opaque, small	<i>Streptococcus agalactiae</i> Light blue
<i>Pseudomonas aeruginosa</i> Translucent, cream to blue	<i>Citrobacter</i> Metallic blue with red halo	<i>Proteus</i> Brown halo
	<i>S. saprophyticus</i> Pink, opaque, small	

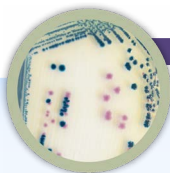
EXCLUSIVE

CHROMagar™ Y.enterocolitica

For detection and differentiation of pathogenic *Yersinia enterocolitica*

SENSITIVITY $\approx 100\%^4$ SPECIFICITY 99%⁴

CE
IVD



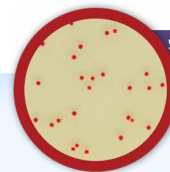
Pathogenic <i>Y. enterocolitica</i> Mauve	Non-pathogenic <i>Y. enterocolitica</i> and other <i>bacteria</i> Inhibited, limited growth or metallic blue
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CHROMagar™ Campylobacter

For detection, differentiation and enumeration of thermotolerant *Campylobacter*

SENSITIVITY $\approx 100\%^6$ SPECIFICITY 94%⁶

CE
IVD



<i>Campylobacter jejuni</i> , <i>C. coli</i> , <i>C. lari</i> Red	Other <i>bacteria</i> Blue or inhibited
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LIM RambaQUICK™ StrepB Method

CHROMagar™ StrepB

For the isolation and differentiation of Group B *Streptococcus* (*S. agalactiae*)

SENSITIVITY 94%⁹ SPECIFICITY $\approx 100\%^9$

CE
IVD



Group B <i>Streptococcus</i> Mauve	Other <i>Microorganisms</i> Blue, colorless or inhibited
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CHROMagar™ StrepB can be used alone or with the method.

EXCLUSIVE



LIM RambaQUICK™ StrepB

Selective enrichment broth for Group B *Streptococcus* (GBS) screening

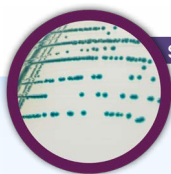
CE
IVD



SOLUTIONS FOR CLINICAL ROUTINE

EXCLUSIVE

CHROMagar™ For detection of *Serratia marcescens* **Serratia**



SENSITIVITY $\approx 100\%^{11}$ SPECIFICITY $97\%^{11}$

CE
IVD

S. marcescens
Green-blue to
metallic blue

Other bacteria
Mostly inhibited,
red or colorless

EXCLUSIVE

CHROMagar™ For detection and enumeration of *B.cepacia*



SENSITIVITY $\approx 100\%^{12}$ SPECIFICITY $95\%^{12}$

CE
IVD

Burkholderia spp.
Blue + / - blue halo



SOLUTIONS FOR RESISTANT BACTERIA

CHROMagar™ For isolation and differentiation of methicillin-resistant *Staphylococcus aureus* (MRSA)



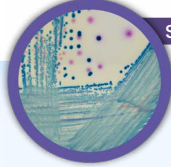
SENSITIVITY $95,6\%^{13}$ SPECIFICITY $\approx 100\%^{13}$

CE
IVD

MRSA
Pink to mauve
Other bacteria
Blue, colorless or inhibited

Methicillin susceptible
Staphylococcus aureus
Inhibited

CHROMagar™ For detection and isolation mSuperCARBA™ of Carbapenem resistant *Enterobacteriaceae* (CRE)



SENSITIVITY $\approx 100\%^{14}$ SPECIFICITY $\approx 100\%^{14}$

CE
IVD

CRE *E. coli*
Dark pink to reddish
CRE coliforms
Metallic blue

Other gram (-) CRE
Colorless
Other gram (-) non-CRE
Mostly inhibited

CHROMagar™ For detection of Van A/Van B VRE. **VRE**



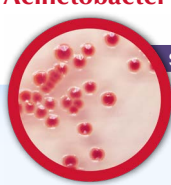
SENSITIVITY $95,5\%^{15}$ SPECIFICITY $90,4\%^{15}$

CE
IVD

VRE. *Faecalis* /
VRE. *faecium*
Pink to mauve
Other bacteria
Inhibited

E. gallinarum /
E. casseliflavus
Blue or inhibited

CHROMagar™ For detection of *Acinetobacter* species and multidrug-resistant *Acinetobacter* (MDR-A)



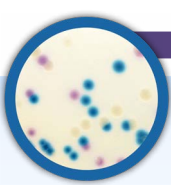
SENSITIVITY $\approx 100\%^{16}$ SPECIFICITY $99,9\%^{16}$

CE
IVD

Acinetobacter spp.
Red

Other gram (-)
Blue or mostly
inhibited

CHROMagar™ For detection of colistin-resistant gram-negative bacteria **COL-APSE**



SENSITIVITY $\approx 100\%^{17}$ SPECIFICITY $81\%^{17}$

CE
IVD

COL-R *E. coli*
Dark pink to
reddish
COL-R
Acinetobacter
Cream, opaque

COL-R
Klebsiella,
Enterobacter,
Citrobacter,
Serratia
Metallic blue

COL-R
Pseudomonas
Traslucent
cream to green

CHROMagar™ **MH Orientation** Chromogenic Mueller Hinton agar



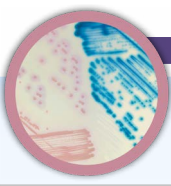
CONCORDANCE WITH
STANDARD PROCEDURE $94,8\%^{18}$

RESEARCH
USE ONLY

E. coli
Dark pink to reddish
Enterococcus
Turquoise blue
Proteus
Cream, opaque

Klebsiella,
Enterobacter,
Citrobacter
Metallic blue

CHROMagar™ For detection and differentiation of gram (+) bacteria resistant to linezolid **LIN-R**



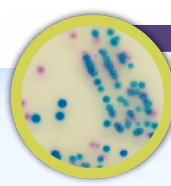
SENSITIVITY $95,4\%^{19}$ SPECIFICITY $99,4\%^{19}$

CE
IVD

LZD-R *S. aureus*
Pink
LZD-R *Enterococcus*
Metallic blue

LZD-R
S. epidermidis
Pink

CHROMagar™ For overnight detection of gram- negative bacteria producing Extended Spectrum Beta-Lactamase **ESBL**



SENSITIVITY $\approx 100\%^{20}$ SPECIFICITY $97\%^{20}$

CE
IVD

E. coli ESBL
Dark pink to reddish
Proteus ESBL
Brown halo

Klebsiella,
Enterobacter,
Citrobacter ESBL
Metallic blue +/- red halo

¹ Mulet Bayona et al., 2022. J. of Fungi. ² Huang et al., 2001. Chinese Med. J. ³ Merlino et al. 1996. J. Clin. Microbiol. ⁴ Renaud et al., 2013. J. Clin. Microbiol. ⁵ Gouali et al., 2013. Eur. J. Clin. Microbiol. ⁶ Bensersa-Nedjar et al., 2017. RICAI. ⁷ Roux et al., 2014. ASM Poster. ⁸ Gaskin et al., 2019. ASM Microbe. ⁹ Salem & Anderson, 2015. Pathology. ¹⁰ Gaillot et al., 2000. J. Clin. Microbiol. ¹¹ Gaskin et al., 2020. ECCMID. ¹² Massoti et al., 2021. RICAI poster. ¹³ Loulergue et al. 2006. Eur. J. Clin. Microbiol. Infect. Dis. ¹⁴ Garcia-Fernandez et al., 2017. Diagn. Microbiol. Infect. Dis. ¹⁵ Miller et al. 2011. CACMID. ¹⁶ Gaillot et al., 2010. ICAAC. ¹⁷ Abdul Momin et al., 2017. J. Med Microbiol. ¹⁸ Cercenado et al., 2009. ECCMID. ¹⁹ F. Layer et al., 2021. Diagn. Microbiol. Infect. Dis. ²⁰ Laudat et al., 2010. SFM.