

# ● CHROMagar™ C3G<sup>R</sup>



**For overnight detection of Gram-negative  
bacteria producing Beta-Lactamase**

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### Background

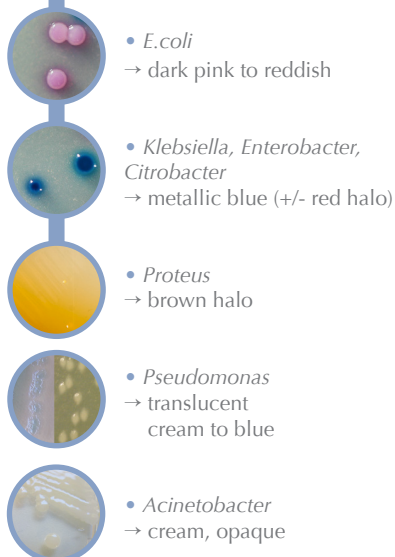
β-Lactamase production (ESBL, AmpC,...) is the most common mechanism of β-lactam drug resistance in gram-negative bacteria. Many clinical laboratories currently screen for ESBLs but do not screen for AmpC β-lactamases; though bacteria (mostly *Klebsiella pneumoniae*, *E. coli*, *Enterobacter* and *Proteus*) producing plasmid-mediated AmpC β-lactamases have been responsible for nosocomial outbreaks.

Therefore, it is crucial to ensure that proper surveillance is in place to help establish appropriate guidelines and policies for infection control. Rapid detection of bacteria producing these enzymes also allows for de-escalation to more targeted therapy, to conserve carbapenem antibiotics for more serious infections.

### Medium Performance

CHROMagar™ C3G<sup>R</sup> combines the species colour differentiation and a selectivity that allows the growth of microorganisms with the reduced susceptibility to 3rd generation cephalosporins.

### Plate Reading



### Quality Control Strains

|                                  |                         |
|----------------------------------|-------------------------|
| <i>E. coli</i> CTXM CIP10392     | reddish, small colonies |
| <i>E. cloacae</i> ATCC® 35030    | metallic blue           |
| <i>E. faecalis</i> ATCC® 29212   | inhibited               |
| <i>P. aeruginosa</i> ATCC® 10145 | inhibited               |
| <i>E. coli</i> ATCC® 25922       | inhibited               |
| <i>C. albicans</i> ATCC® 60193   | inhibited               |
| <i>S. aureus</i> ATCC® 25923     | inhibited               |

ATCC® is a registered trademark of the American Type Culture Collection

1 **FAST RESULTS**  
Detection after overnight incubation

2 **SPECIES DIFFERENTIATION**  
Thanks to the chromogenic performances of supplemented CHROMagar™ Orientation. Indeed, the product is composed of a powder base CHROMagar™ Orientation and a supplement to select β-Lactamase producing bacteria.

3 **HIGH SENSITIVITY**  
Unique medium not inhibiting plasmid-mediated AmpC-producing bacteria.

4 **TIME AND WORKLOAD SAVINGS**  
Direct culture from specimen. There is no need of a selective pre-enrichment.

### Medium Description

|   |   |
|---|---|
| <b>Powder Base</b><br>(CHROMagar Orientation)                                   | Total ..... 33 g/L<br>Agar ..... 15.0<br>Peptone and yeast extract ..... 17.0<br>Chromogenic mix ..... 1.0<br>Storage at 15/30°C - pH: 7.0 +/-0.2<br>Shelf Life ..... 2 years |
| <b>+<br/>CHROMagar C3G<sup>R</sup><br/>Supplement</b><br>(included in the pack) | Selective mix (Powder form) ..... 0.37 g/L<br>Storage at 2/8°C<br>Shelf Life ..... 2 years  |

|               |  |
|---------------|--|
| Usual Samples | stools, urine  |
| Procedure     | Direct Streaking. Incubation 18-24h at 37°C.<br>Aerobic conditions |

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

### Order References

Please use these product references when contacting your local distributor:

|              |  |
|--------------|--|
| 5000 ml pack | CGRT2 (includes a base powder RT412 and a supplement CG632)          |
| 25 L pack    | CGRT3-25 (includes a base powder RT413-25 and a supplement CG633-25) |
| Bulk         | on request   |

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[www.CHROMagar.com/contact](http://www.CHROMagar.com/contact)