

# ● CHROMagar™ Orientation



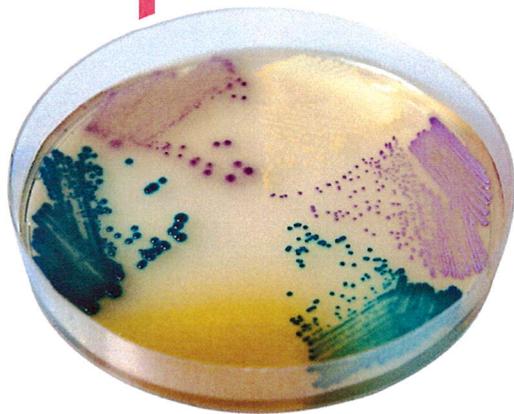
For isolation and differentiation  
of urinary tract pathogens

**CHR**  **Magar**  
The Chromogenic Media Pioneer

*Appl.*

# ● CHROMagar™ Orientation

www.CHROMagar.com



## Plate Reading

- *E.coli*  
→ dark pink to reddish
- *Enterococcus*  
→ turquoise blue
- *Proteus*  
→ brown halo
- *Klebsiella, Enterobacter, Serratia*  
→ metallic blue
- *S.aureus*  
→ golden, opaque, small
- *Citrobacter*  
→ metallic blue with red halo
- *S.saprophyticus*  
→ pink, opaque, small
- *Candida albicans*  
→ colourless
- *Streptococcus agalactiae*  
→ Light blue
- *Pseudomonas aeruginosa*  
→ Translucent, cream to blue

## Quality Control Strains

<i>E. faecalis</i> ATCC® 29212	.....	turquoise blue
<i>E. coli</i> ATCC® 25922	.....	reddish
<i>S. aureus</i> ATCC® 12600	.....	golden yellow
<i>S. epidermidis</i> ATCC® 12228	.....	colourless
<i>S. saprophyticus</i> ATCC® 15305	.....	pink
<i>K. pneumoniae</i> ATCC® 13883	.....	metallic blue

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

## For isolation and differentiation of urinary tract pathogens

### Background

Urinalysis is the most common clinical microbial test. For instance, in France in 2007, out of 10 million bacteriology tests carried out, 6 million (60%) were urinalyses. Thus, any workload reduction related to this analysis will dramatically improve the efficiency of the laboratory.

### Medium Performance

#### 1 INSTANT PALETTE OF COLOURS TO OBTAIN A LARGE SPECTRUM OF SPECIES DIFFERENTIATION

CHROMagar™ Orientation has several advantages over traditional media:

- allows in most cases full differentiation of the pathogens
- allows for reliable detection, enumeration and presumptive identification of urinary tract pathogens
- easier recognition of mixed growth
- provides higher detection rates

#### 2 HIGH DETECTION OF MINOR POPULATION

The proper use of CHROMagar™ Orientation will correctly pinpoint the presence of a minor population and will help to establish the right diagnosis and therapy.

#### 3 SAVE TIME AND REDUCE WORKLOAD

The most common UTI pathogen is *E.coli*, found in 40-70% of infections. CHROMagar™ Orientation has a specificity of **99,3%\*** for *E.coli*, rendering the species confirmatory test largely unnecessary. One plate of CHROMagar™ Orientation will give the same information as the combination of the 3 classical plates used for UTI analysis (blood agar, CLED and MacConkey agar). Moreover, since it is easy to differentiate mixed flora on CHROMagar™ Orientation, antimicrobial susceptibility tests can be performed directly from primary isolates without the need of subcultures.

\* Merlino, J. et al. 1996. Evaluation of CHROMagar Orientation for Differentiation and Presumptive Identification of Gram-Negative Bacilli and Enterococcus Species, J.C.M. 34: 1788-1793.

#### 4 ISOLATION OF A VARIETY OF MICROORGANISMS

The major target of this medium is the detection of urinary tract pathogens but CHROMagar™ Orientation has a broader application as a general nutrient agar for the isolation of various microorganisms. CHROMagar™ Orientation can also be used to differentiate various microorganisms in other infected areas; e.g. scars. In addition, CHROMagar™ Orientation is useful when supplemented with various antibiotics in detecting increasingly important nosocomial and multidrug resistant microorganisms (See CHROMagar™ ESBL and CHROMagar™ KPC).

### Medium Description

Powder Base	
Total	..... 33 g/L
Agar	..... 15.0
Peptone and yeast extract	..... 17.0
Chromogenic mix	..... 1.0
Storage at 15/30°C - pH: 7.0 ± 0.2	
Shelf Life	..... 2 years <span style="float: right;">9d.5.</span>

Usual Samples	urine
Procedure	Direct Streaking, Incubation at 37°C, 18-24h. Aerobic condition.

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:

1000 ml pack	..... RT410
5000 ml pack	..... RT412
25 L pack	..... RT413-25

Manufacturer: CHROMagar  
4 place du 18 juin 1940 75006 Paris - France  
Email: [CHROMagar@CHROMagar.com](mailto:CHROMagar@CHROMagar.com)  
Website: [www.CHROMagar.com](http://www.CHROMagar.com)  
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