

# BD BBL™ CHROMagar™

Report results faster, with easy identification and differentiation.<sup>1</sup>



# Your challenges

Microbiology laboratories face multiple challenges when using diagnostic tools to effectively identify and differentiate bacteria.

- Increasing sample volumes<sup>2</sup>
- Inefficient process/workflow<sup>2</sup>
- Lack of available skilled staff<sup>2</sup>
- Cost pressure<sup>2</sup>

# Consequences of inefficiencies

If you work with standalone diagnostic solutions with no end-to-end approach, you're likely facing inefficient workflows that can compromise quality, increase your risk of errors, and reduce profitability.

- Errors that compromise quality
- Complex protocols
- Unnecessary workup
- Slower time to report results
- Loss of profitability

We have manufactured high-quality BD BBL™ CHROMagar™ for microbiology laboratories for over 20 years

# What if you could help optimize your workflow efficiency?



It's time to discover the positive impacts of BD BBL™ CHROMagar™

Watch your laboratory benefit from:



\*Compared to conventional media when using the direct identification capabilities of CHROMagar Orientation for *E. coli* and *Enterococcus* or CHROMagar MRSA for MRSA.



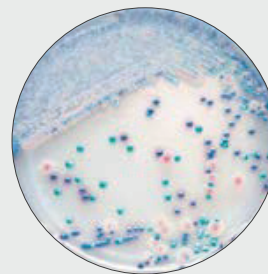
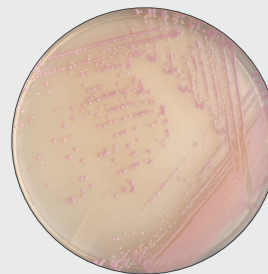
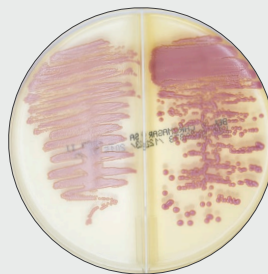
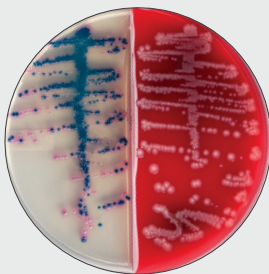
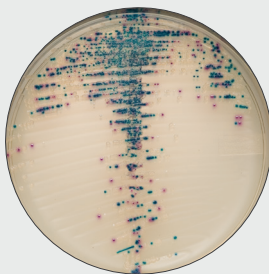


# Would you benefit from the use of chromogenic media?

## Identify with ease

- Streamline your organism identification and enhance differentiation in complex cultures<sup>1</sup>
- Reduce the labor of your team and the consumables that your labs use<sup>1</sup>
- Increases the efficiency on the urine bench<sup>1</sup>

The BD BBL™ CHROMagar™ family uses a chromogen mix that releases colored compounds after degradation by specific microbial enzymes. You can visually detect the bacteria by a distinct color change within the colony, so you can easily differentiate species with minimal confirmatory tests.<sup>4</sup>



### BD BBL™ CHROMagar™ Orientation<sup>5</sup>

#### BD BBL™ CHROMagar™ Orientation / TSA II I Plate™

- Direct identification of *Escherichia coli* and *Enterococcus*, and presumptive identification of most *Staphylococcus saprophyticus* and *Streptococcus agalactiae* as well as *Klebsiella-Enterobacter-Serratia* and *Proteus-Morganella-Providencia* groups
- This resulted in a 28% reduction in workload for additional follow-up and validation tests.<sup>1</sup>
- Costs savings (primarily in labor).<sup>3</sup>

### BD BBL™ CHROMagar™ MRSA<sup>6</sup>

- A selective, differential medium that allows you a qualitative, direct identification of MRSA.
- Validated for use with BD Kiestra™ MRSA imaging application for automated growth detection and color recognition to enable mauve color growth detection without confirmatory testing for nares specimens only.

### BD BBL™ CHROMagar™ MRSAII / CHROMagar™ SA Bi-plate<sup>7</sup>

- The BD BBL™ CHROMagar™ MRSA II side is a selective medium for the qualitative direct detection of nasal colonization by methicillin-resistant *Staphylococcus aureus* (MRSA) while BD BBL™ CHROMagar™ Staph aureus is a medium for the isolation, enumeration and identification of *Staphylococcus aureus*.<sup>7</sup>
- Read plates against a white background. Colonies of MRSA will appear mauve on the BD BBL™ CHROMagar™ MRSA II medium. *S. aureus* will produce mauve to orange / mauve colored colonies on BD BBL™ CHROMagar™ Staph aureus medium.<sup>7</sup>

### BD BBL™ CHROMagar™ Staph aureus<sup>8</sup>

- A selective medium for the isolation, enumeration and identification of *Staphylococcus aureus*.<sup>8</sup>
- After proper incubation, read plates against a white background. *S. aureus* will produce mauve to orange/mauve colored colonies on the BD BBL™ CHROMagar™ medium. Most gram-positive organisms, if not inhibited, will produce blue, blue-green or natural color (colorless, white or cream) colonies. Gram-negative organisms and yeasts are partially to completely inhibited.<sup>8</sup>

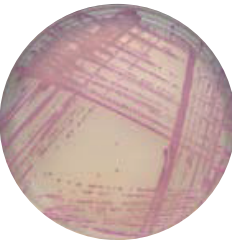
### BD BBL™ Candida<sup>9</sup>

- Isolation and identification of *Candida albicans*, *C. tropicalis*, and *C. krusei* within 20-48 hours.\*
- Various studies indicate that further identification tests are not necessary.<sup>9</sup>
- Can also be used as a selective isolation medium for other yeast species and for filamentous fungi.

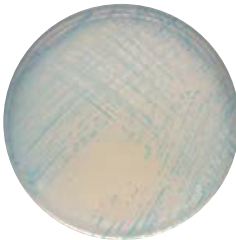
\* Note that an incubation of 48 hours is required for full color development of the colonies.



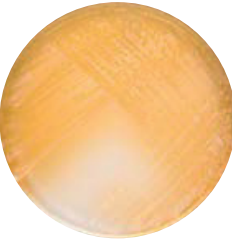
# The BBL™ CHROMagar™ family



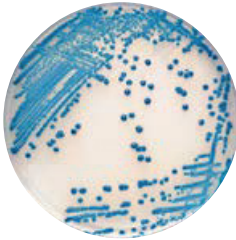
**BD BBL™ CHROMagar™ Orientation**  
*Staphylococcus saprophyticus*



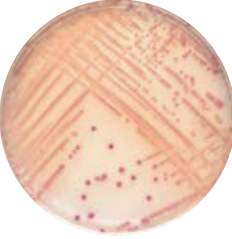
**BD BBL™ CHROMagar™ Orientation**  
*Streptococcus agalactiae - Proteus*



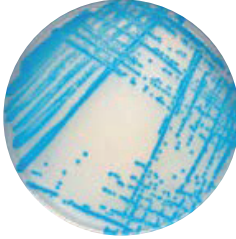
**BD BBL™ CHROMagar™ Orientation**  
*Porteus-Morganella-Providencia group*



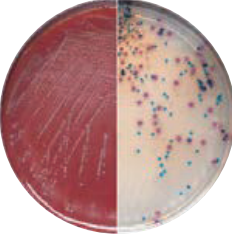
**BD BBL™ CHROMagar™ Orientation**  
*Klebsiella - Enterobacter - Serratia group*



**BD BBL™ CHROMagar™ Orientation**  
*Escherichia coli*



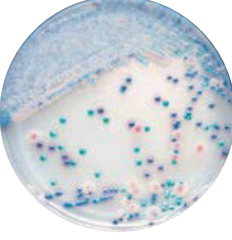
**BD BBL™ CHROMagar™ Orientation**  
*Enterococcus sp.*



**BD BBL™ CHROMagar™ Orientation / TSA II I Plate**  
*E. coli - Enterococcus sp. - Proteus sp.*



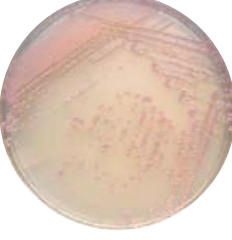
**BD BBL™ CHROMagar™ MRSA II**  
Methicillin Resistant  
*Staphylococcus aureus*



**BD BBL™ CHROMagar™ Candida**  
*C. albicans - C. tropicalis - C. krusei.*



**BD BBL™ CHROMagar™ MRSaII / CHROMagar™ SA Bi-plate**  
*Staphylococcus aureus* which is methicillin resistant



**BD BBL™ CHROMagar™ Staph aureus**  
*Staphylococcus aureus*

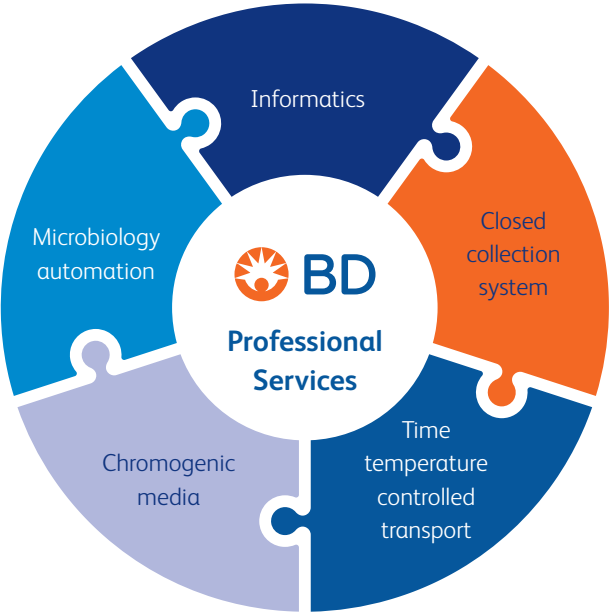
## BD BBL™ CHROMagar

Cat. No.	Description	Quantity
214982	BD BBL™ CHROMagar™ Staph Aureus	20
215081	BD BBL™ CHROMagar™ Orientation	100
215228	BD BBL™ CHROMagar™ MRSA II	20
215229	BD BBL™ CHROMagar™ MRSA II	100
215421	BD BBL™ CHROMagar™ MRSaII / CHROMagar™ SA Bi-plate	100
222239	BD BBL™ CHROMagar™ Orientation / TSA II I Plate™	100
254093	BD BBL™ CHROMagar™ Candida	20

## Discover the benefits of an integrated urine solution

BD can provide you with flexible microbiology testing capabilities from sample collection to result.

- Preserve the quality of your urine samples to improve diagnostic accuracy with BD Vacutainer.®10
- Reduce your workload through direct identification of *E. coli* and *Enterococcus* using BD BBL™ CHROMagar™ Orientation.13,5
- BD Kiestra™ solutions are scalable, standalone or track connected microbiology solutions for inoculation, incubation, plate reading and automated preparation of follow up testing.
- The BD Kiestra™ Urine Culture Application uses digital imaging and software algorithms to determine the amount of growth on a urine culture plate from clean catch and catheterized samples.
- BD BBL™ CHROMagar™ Orientation has been validated as an acceptable medium for both identification and antimicrobial susceptibility testing on the BD Phoenix™ System.







# BD can give you a solution for the full specimen pathway, from collection to result.

1 Manickam, K, CHROMagar Orientation Medium Reduces Urine Culture Workload, *JCM*, April 2013 vol 51(4)1179-1183.

2 Antonios K, Croxatto A, Culbreath K. Current State of Laboratory Automation in Clinical Microbiology Laboratory. *Clin Chem*. 2021 Dec 30;68(1):99-114. doi:10.1093/clinchem/hvab242.

3 D'Souza, HA, Baron, EJ, Practical Bench Comparison of BBL™ CHROMagar™ Orientation and Standard 2-Plate Media for Urine Cultures, *JCM*, Jan 2004, p.60-64.

4 Perry JD, Freydière AM. The application of chromogenic media in clinical microbiology. *J Appl Microbiol*. 2007 Dec;103(6):2046-55. doi: 10.1111/j.1365-2672.2007.03442.x.

5 BBL™ CHROMagar™ Orientation medium [BD product insert]. Franklin Lakes, NJ: Becton, Dickinson and Company; 2009.

6 BBL™ CHROMagar™ MRSA II BD [BD product insert]. Franklin Lakes, NJ: Becton, Dickinson and Company; 2009.

7 BBL™ CHROMagar™ MRSaII / CHROMagar™ SA Bi-plate [BD product insert]. Franklin Lakes, NJ: Becton, Dickinson and Company; 2009.

8 BBL™ CHROMagar™ Staph aureus [BD product insert]. Franklin Lakes, NJ: Becton, Dickinson and Company; 2009.

9 BBL™ CHROMagar™ Candida [BD product insert]. Franklin Lakes, NJ: Becton, Dickinson and Company; 2009.

10 Stagg A, Lutz H, Kirpalaney S, et al. Impact of two-step urine culture ordering in the emergency department: a time series analysis. *BMJ Qual Saf*. 2018;27(2):140–147. doi:10.1136/bmjqs-2016-006250.

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