

# 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 in blood culture, stool, urine and HAI samples.



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. These errors and delays in identifying the cause of infections increases the risk of your clinicians making inappropriate antimicrobial choices.



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



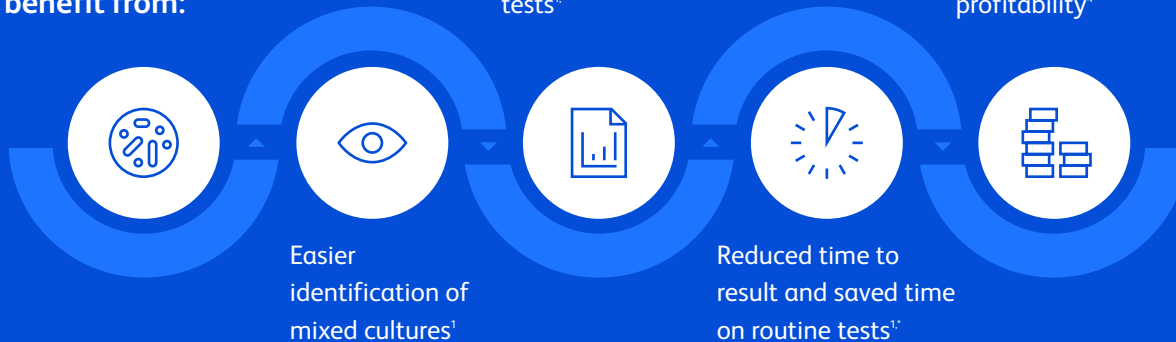
# What if you could optimise your workflow efficiency?



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

# Would you benefit from the use of chromogenic media?

Watch your laboratory benefit from:

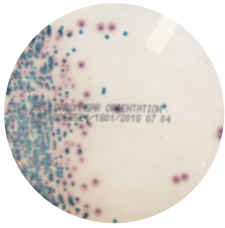


## Identify with ease

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

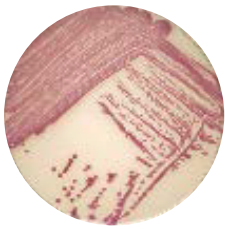
The BD BBL™ CHROMagar™ family uses a chromogen mix that releases coloured compounds after degradation by specific microbial enzymes. You can visually detect the bacteria by a distinct colour change in the medium, so you can easily differentiate species with minimal confirmatory tests.<sup>4</sup>

<sup>1</sup>Compared to conventional media when using the direct identification capabilities of CHROMagar Orientation for *E. coli* and *Enterococcus* or CHROMagar MRSA for MRSA.



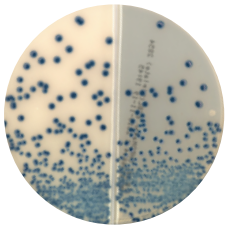
### BD BBL™ CHROMagar™ Orientation<sup>5</sup>

- Direct identification of *E. coli* and *Enterococci*, and presumptive identification of *Staphylococcus saprophyticus*, *Proteus mirabilis* and other UTI organisms.
- This resulted in a 28% reduction in workload for additional follow-up and validation tests.<sup>1</sup>
- Costs savings (primarily in labour).<sup>3</sup>
- The BD Kiestra™ Urine Culture Application detects growth and interprets samples grown on BD BBL™ CHROMagar™ Orientation to allow for an auto batch release.



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

- A selective, differential medium that allows you a qualitative, direct identification of MRSA
- Directly identify MRSA without confirmatory testing, for auto batch release with the BD Kiestra™ imaging application.

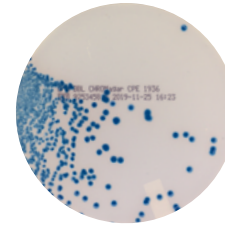


### BD BBL™ CHROMagar™ ESBL<sup>7</sup>

- Detect ESBL-producing bacteria, including *E. coli* and *Klebsiella pneumoniae*, in 24 hours
- The media demonstrated a 100% sensitivity (108/108) and 93% specificity (107/203) in an external performance evaluation.<sup>7</sup>

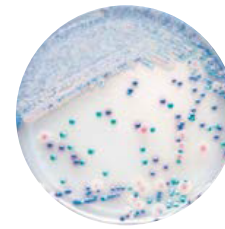
\* Compared to conventional media when using the direct identification capabilities of CHROMagar Orientation for *E. coli* and *Enterococcus* or CHROMagar MRSA for MRSA.

\*\* Note that an incubation of 42 hours is required for full color development of the colonies.



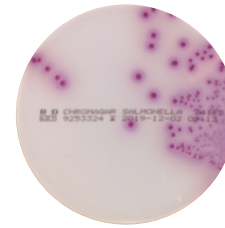
### BD BBL™ CPE<sup>8</sup>

- Detects carbapenemase-producing *Enterobacteriaceae* (CPE) in 18-24 hours.
- Direct identification of *E. coli* and detection of the *Klebsiella-Enterobacter-Citrobacter-Serratia* and *Proteus-Morganella rovidencia* groups of organisms
- The media demonstrated a 100% sensitivity (21/21) and 94% specificity (206/227) in an external performance evaluation.<sup>8</sup>



### BD BBL™ Candida<sup>9</sup>

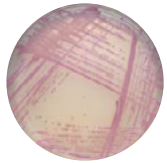
- Isolation and identification of *Candida albicans*, *C. tropicalis*, and *C. krusei* within 20-48 hours.\*\*
- Various studies indicate that further identification tests are not necessary.<sup>9</sup>
- Can also be used as a selective isolation medium for other yeast species and for filamentous fungi.



### BD BBL™ Salmonella<sup>10</sup>

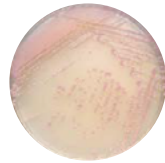
- A selective and differential medium for the isolation and presumptive identification of *Salmonella species* from stool
- The media demonstrated a 99% sensitivity and 97% specificity when subculturing from Selenite F broth.<sup>10</sup>

# The BBL™ CHROMagar™ family



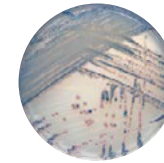
## BD BBL™ CHROMagar™ Orientation

*Staphylococcus saprophyticus*



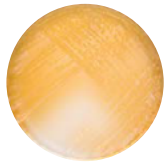
## BD BBL™ CHROMagar™ Staph aureus

*Staphylococcus aureus*



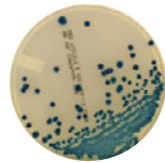
## BD BBL™ CHROMagar™ O157

*E. coli* O157:H7 - *Enterobacter cloacae*



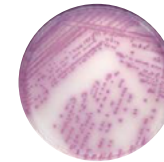
## BD BBL™ CHROMagar™ Orientation

*Morganella* - *Providencia* group



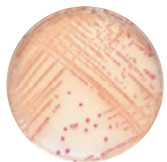
## BD BBL™ CHROMagar™ CPE

*Escherichia coli* (IMP)



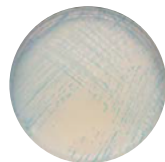
## BD BBL™ CHROMagar™ Salmonella

*Salmonella typhimurium*



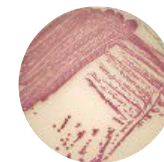
## BD BBL™ CHROMagar™ Orientation

*Escherichia coli*



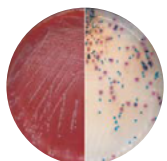
## BD BBL™ CHROMagar™ Orientation

*Streptococcus agalactiae* - *Proteus*



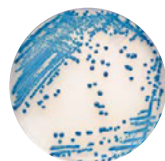
## BD BBL™ CHROMagar™ MRSA II

Methicillin Resistant  
*Staphylococcus aureus*



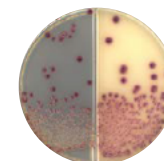
## BD BBL™ CHROMagar™ Orientation / Columbia CNA 5% SB

*E. coli* - *Enterococcus* sp. - *Proteus* sp.



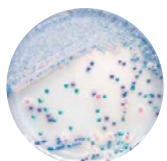
## BD BBL™ CHROMagar™ Orientation

*Klebsiella* - *Enterobacter* - *Serratia* group



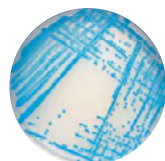
## BD BBL™ CHROMagar™ ESBL (biplate)

*Escherichia coli*



## BD BBL™ CHROMagar™ Candida

*C. albicans* - *C. tropicalis* - *C. krusei*.



## BD BBL™ CHROMagar™ Orientation

*Enterococcus* species

## BD BBL™ CHROMagar™

Cat. No.	Quantity	Description
257074	20	BD BBL™ CHROMagar™ Staph. Aureus
257099	120	BD BBL™ CHROMagar™ Staph. Aureus
257480	20	BD BBL™ CHROMagar™ Candida
254106	120	BD BBL™ CHROMagar™ Candida
254105	20	BD BBL™ CHROMagar™ O157
257481	20	BD BBL™ CHROMagar™ Orientation
254107	120	BD BBL™ CHROMagar™ Orientation
254104	20	BD BBL™ CHROMagar™ Salmonella
257434	20	BD BBL™ CHROMagar MRSA II
257435	120	BD BBL™ CHROMagar MRSA II
257606	20	BD BBL™ CHROMagar ESBL biplate
257681	20	BD BBL™ CHROMagar CPE

## BD BBL™ CHROMagar biplates

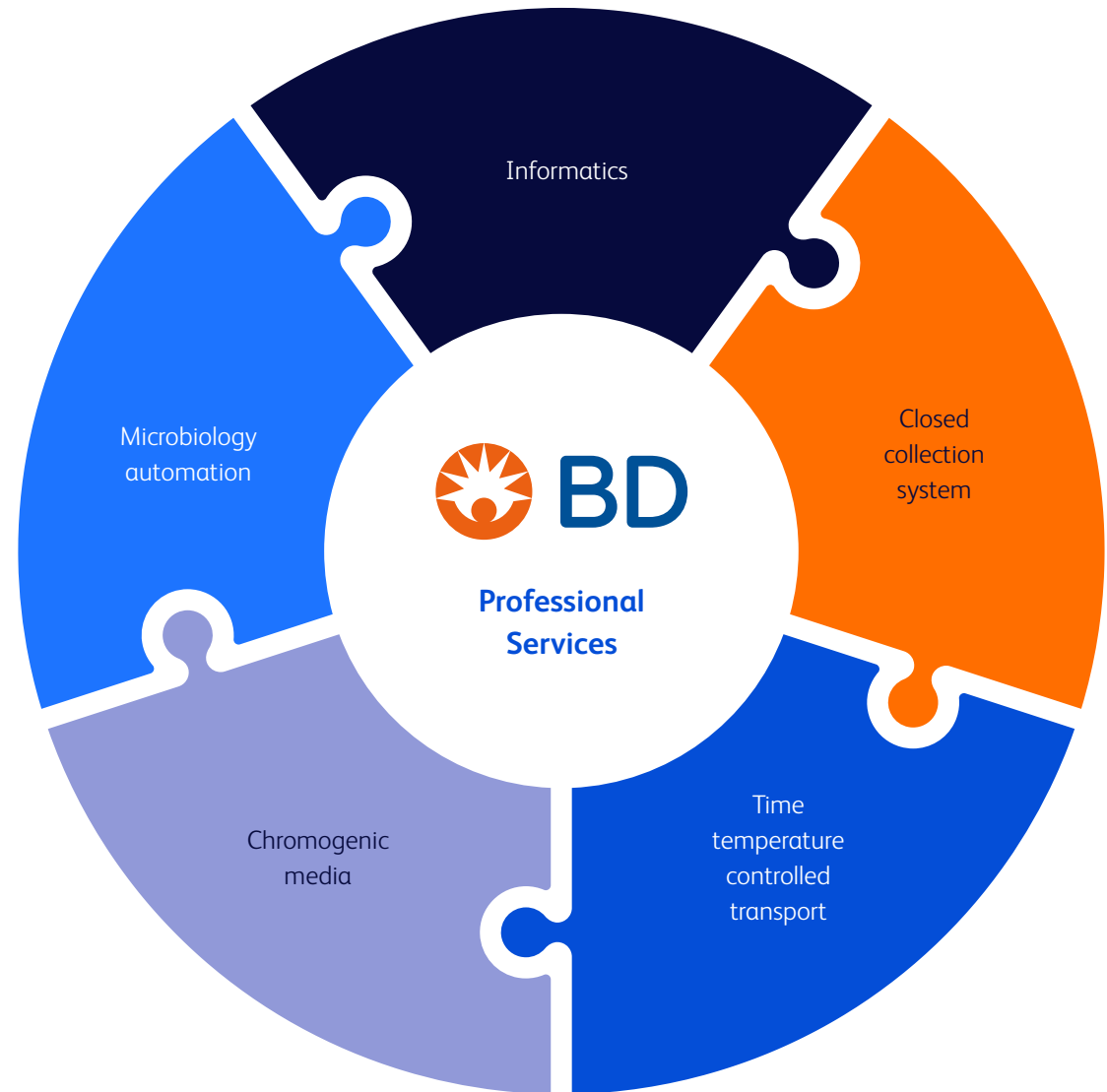
Cat. No.	Quantity	Description
257727	120	BD BBL™ CHROMagar™ Orientation Medium / Columbia CNA Agar
257585	120	CHROMagar™ Staph aureus / BBL™ CHROMagar™ MRSA II
257372	20	BD BBL™ CHROMagar™ Salmonella* / XLD Agar
257663	20	BD™ Sabouraud GC Agar/ CHROMagar™ Candida
254515	120	BD™ Sabouraud GC Agar/ CHROMagar™ Candida



# 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 Services accuracy with the BD Vacutainer®<sup>11</sup>
- Monitor the sample transport process with BD Widerlab™
- Reduce your workload through direct identification of *E. coli* and *Enterococcus species* using BD BBL™ CHROMagar™ Orientation<sup>1,3,5</sup>
- BD Kiestra™ solutions are scalable, standalone or track connected microbiology solutions for inoculation, incubation, plate reading and automated preparation of follow up testing
- BD Kiestra™ Urine Culture Application detects growth and interprets samples grown on BD BBL™ CHROMagar™ Orientation to allow for the direct identification of the primary urinary pathogens *E. coli* and *Enterococcus* without confirmatory testing.<sup>5</sup>



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. BD product insert. BBL™ CHROMagar™ Orientation medium [https://legacy.bd.com/ds/technicalCenter/inserts/8011255\(02\).pdf](https://legacy.bd.com/ds/technicalCenter/inserts/8011255(02).pdf). Accessed September 2021.
6. BD product insert. BBL™ CHROMagar™ MRSA II [https://legacy.bd.com/ds/technicalCenter/inserts/L010089\(02\).pdf](https://legacy.bd.com/ds/technicalCenter/inserts/L010089(02).pdf). Accessed September 2021.
7. BD product insert. BBL™ CHROMagar™ ESBL <https://www.bd.qarad.eifu.online/hcp/bdx/GB/en/all>. Accessed March 2022.
8. BD product insert. BBL™ CHROMagar™ CPE <https://www.bd.qarad.eifu.online/hcp/bdx/GB/en/all>. Accessed October 2022.
9. BD product insert. BBL™ CHROMagar™ Candida <https://www.bd.qarad.eifu.online/hcp/bdx/GB/en/all>. Accessed October 2022.
10. BD product insert. BBL™ CHROMagar™ Salmonella <https://www.bd.qarad.eifu.online/hcp/bdx/GB/en/all>. Accessed October 2022.
11. 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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