

### Rapid Blood Culture Identification

Effective Date: March 1, 2022

# Laboratory Bulletin

Beaumont Laboratory will be implementing the BioFire Blood Culture Identification 2 (BCID2) panel for the rapid identification of organisms and select antimicrobial resistance markers from positive blood culture bottles. Once a blood bottle flags positive, the new panel allows organism and resistance identification to be available in hours instead of days to aid in the diagnosis and treatment of bloodstream infections. The BCID2 panel uses a PCR-based method to detect up to 42 targets commonly associated with bloodstream infections, including gram-negative bacteria, gram-positive bacteria, yeast, and 9 antimicrobial resistance genes (see below). However, the BCID2 panel is not all inclusive and a negative result should not be used as the sole basis for patient management decisions.

The BCID2 panel is not an orderable test and will automatically be performed on the first positive blood culture bottle per inpatient admission. Results from the panel will be posted immediately upon completion to the patient's chart and visible under the blood culture report. Subsequent BCID2 panels will only be performed if the Gram stain differs from the original result.

**Note:** The BCID2 panel will not be performed on positive blood cultures with gram positive bacilli identified in the Gram stain unless *Listeria* is suspected.

If you have questions, please contact please contact your Beaumont Laboratory Customer Service Department:

- Farmington Hills, Grosse Pointe, Royal Oak and Troy: 800-551-0488 or 248-551-1155, Option 5
- Dearborn, Taylor, Trenton and Wayne: 800-245-3725, Option 1

Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

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**Date submitted:** January 31, 2022

**Submitted by:** Daniel Ortiz, PhD, D(ABMM), System Director, Microbiology and Molecular Pathology

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*Beaumont Laboratory*

*Customer Service*

1-800-551-0488

28050 Grand River Ave.  
Farmington Hills, MI 48336

468 Cadieux Road  
Grosse Pointe, MI 48230

3601 West 13 Mile Road  
Royal Oak, MI 48073

44201 Dequindre Road  
Troy, MI 48085

[www.beaumontlaboratory.com](http://www.beaumontlaboratory.com)

# Beaumont

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### Gram-Negative Panel

Gram-Negative Bacteria	Resistance Genes
<i>Acinetobacter baumannii</i> <i>Bacteroides fragilis</i> <i>Haemophilus influenzae</i> <i>Neisseria meningitidis</i> <i>Pseudomonas aeruginosa</i> <i>Stenotrophomonas maltophilia</i> Enterobacterales family (Enterics) <i>Enterobacter cloacae complex</i> <i>Escherichia coli</i> <i>Klebsiella aerogenes</i> <i>Klebsiella oxytoca</i> <i>Klebsiella pneumoniae</i> <i>Proteus</i> spp <i>Salmonella</i> spp. <i>Serratia marcescens</i>	mcr-1 = colistin resistance CTX-M = ESBL IMP* KPC* OXA-48* NDM* VIM*  *Carbapenem resistance

### Gram-Positive Panel

Gram-Positive Bacteria	Resistance Genes
<i>Enterococcus faecalis</i> <i>Enterococcus faecium</i> <i>Listeria monocytogenes</i> <i>Staphylococcus</i> spp. <i>Staphylococcus aureus</i> <i>Staphylococcus epidermidis</i> <i>Staphylococcus lugdunensis</i> <i>Streptococcus</i> spp. <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i> <i>Streptococcus pyogenes</i>	<i>mecA/B</i> = methicillin (oxacillin) resistance <i>vanA/B</i> = vancomycin resistance

### Yeast Panel

Yeast
<i>Candida albicans</i> <i>Candida auris</i> <i>Candida glabrata</i> <i>Candida krusei</i> <i>Candida parapsilosis</i> <i>Candida tropicalis</i> <i>Cryptococcus neoformans/gattii</i>

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