



BIOFIRE® Blood Culture Identification 2 (BCID2) Panel Polymicrobial Blood Culture Tech Note

1. Introduction

The purpose of this technical note is to supplement information provided in the BIOFIRE BCID2 Panel Instructions for Use (IFU).

2. Specimens with Multiple Organisms Identified by Reference/Comparator Method

This table supplements BIOFIRE BCID2 Panel IFU Table 17, “Multiple Detection Combinations as Determined by the BioFire BCID2 Panel, Prospective Study” with information showing multiple organism detection combinations as determined by the reference/comparator methods.

Table 1. Additional Specimens with Multiple Organisms Identified by Reference/Comparator Methods (organisms shaded in gray are not targeted by the BIOFIRE BCID2 Panel)

Distinct Co-Detection Combinations					Total Specimens with Co-Detections	Number of Specimens with False Negative Co-Detections	False Negative Organism(s) [False Negative AMR Gene(s)] (Not Detected by the BCID2 Panel; excludes off-panel organisms)
Organism 1	Organism 2	Organism 3	Organism 4	AMR Gene(s) ^a			
<i>Escherichia coli</i>	<i>Klebsiella pneumoniae</i>	<i>Streptococcus salivarius</i>	<i>Streptococcus vestibularis</i>	-	1	0	-
<i>Chryseobacterium indologenes</i>	<i>Klebsiella pneumoniae</i>	<i>Serratia liquefaciens</i> complex	-	-	1	0	-
<i>Enterococcus faecalis</i>	<i>Escherichia coli</i>	<i>Providencia stuartii</i>	-	<i>mecA/C</i> ^b , <i>mecA/C</i> and MREJ (MRSA)	1	0	-
<i>Enterococcus faecalis</i>	<i>Proteus mirabilis</i>	<i>Staphylococcus haemolyticus</i>	-	CTX-M, <i>mecA/C</i>	1	0	-
<i>Escherichia coli</i>	<i>Klebsiella pneumoniae</i>	<i>Pseudomonas aeruginosa</i>	-	CTX-M	1	1	<i>K. pneumoniae</i> group
<i>Staphylococcus epidermidis</i>	<i>Staphylococcus hominis</i>	<i>Staphylococcus simulans</i>	-	<i>mecA/C</i>	1	0	-
<i>Staphylococcus hominis</i>	<i>Streptococcus viridans</i>	<i>Veillonella</i> spp.	-	<i>mecA/C</i>	1	0	-
<i>Acinetobacter baumannii</i>	<i>Enterococcus faecium</i>	-	-	<i>mecA/C</i> , <i>vanA/B</i>	1	0	-
<i>Acinetobacter baumannii</i>	<i>Staphylococcus hominis</i>	-	-	-	1	1	ACB complex, <i>Staphylococcus</i> spp.
<i>Acinetobacter</i> spp.	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-





Distinct Co-Detection Combinations					Total Specimens with Co-Detections	Number of Specimens with False Negative Co-Detections	False Negative Organism(s) [False Negative AMR Gene(s)] (Not Detected by the BCID2 Panel; excludes off-panel organisms)
Organism 1	Organism 2	Organism 3	Organism 4	AMR Gene(s) ^a			
<i>Atopobium parvulum</i>	<i>Veillonella parvula</i>	-	-	-	1	0	-
<i>Bacillus cereus</i>	<i>Bacillus megaterium</i>	-	-	-	1	0	-
<i>Bacillus cereus</i>	<i>Streptococcus mitis/oralis</i>	-	-	-	1	0	-
<i>Bacillus</i> spp. not anthracis	<i>Pseudomonas aeruginosa</i>	-	-	-	1	0	-
<i>Bacillus</i> spp. not anthracis	<i>Staphylococcus haemolyticus</i>	-	-	-	1	0	-
<i>Bacteroides faecis</i>	<i>Bacteroides thetaiotaomicron</i>	-	-	-	1	0	-
<i>Bacteroides thetaiotaomicron</i>	<i>Escherichia coli</i>	-	-	-	1	0	-
<i>Candida lusitanae</i>	<i>Stenotrophomonas maltophilia</i>	-	-	-	1	0	-
<i>Clostridium ramosum</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Clostridium septicum</i>	<i>Streptococcus viridans</i>	-	-	-	1	0	-
<i>Clostridium tertium</i>	<i>Granulicatella</i> spp.	-	-	-	1	0	-
<i>Corynebacterium aurimucosum</i>	<i>Staphylococcus epidermidis</i>	-	-	-	1	0	-
<i>Corynebacterium confusum</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Corynebacterium striatum</i>	<i>Streptococcus mitis</i>	-	-	-	1	0	-
<i>Corynebacterium</i> spp.	<i>Staphylococcus pettenkoferi</i>	-	-	-	1	0	-
<i>Enterococcus faecalis</i>	<i>Staphylococcus aureus</i>	-	-	-	1	1	<i>E. faecalis</i>
<i>Enterococcus faecalis</i>	<i>Staphylococcus haemolyticus</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Enterococcus faecium</i>	<i>Proteus mirabilis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Enterococcus gallinarum</i>	<i>Escherichia coli</i>	-	-	-	1	0	-
<i>Globicatella sanguinis</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Granulicatella adiacens</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Klebsiella oxytoca</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i> ^b	1	1	<i>S. epidermidis</i>
<i>Lactococcus</i> spp.	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Micrococcus luteus</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Pseudomonas aeruginosa</i>	<i>Stenotrophomonas maltophilia</i>	-	-	-	1	1	<i>S. maltophilia</i>
<i>Pseudomonas putida</i>	<i>Stenotrophomonas maltophilia</i>	-	-	-	1	0	-
<i>Rothia mucilaginosa</i>	<i>Streptococcus mutans</i>	-	-	-	1	0	-





Distinct Co-Detection Combinations					Total Specimens with Co-Detections	Number of Specimens with False Negative Co-Detections	False Negative Organism(s) [False Negative AMR Gene(s)] (Not Detected by the BCID2 Panel; excludes off-panel organisms)
Organism 1	Organism 2	Organism 3	Organism 4	AMR Gene(s) ^a			
<i>Staphylococcus aureus</i>	<i>Staphylococcus haemolyticus</i>	-	-	<i>mecA/C</i> , <i>mecA/C</i> and MREJ (MRSA)	1	0	[<i>mecA/C</i> and MREJ]
<i>Staphylococcus aureus</i>	<i>Staphylococcus hominis</i>	-	-	<i>mecA/C</i> , <i>mecA/C</i> and MREJ (MRSA)	1	0	-
<i>Staphylococcus aureus</i>	<i>Streptococcus pyogenes</i>	-	-	-	1	0	<i>Streptococcus/S. pyogenes</i>
<i>Staphylococcus auricularis</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	1	0	-
<i>Staphylococcus capitis</i>	<i>Staphylococcus epidermidis</i>	-	-	<i>mecA/C</i>	2	0	-
<i>Staphylococcus capitis</i>	<i>Staphylococcus epidermidis</i>	-	-	-	2	0	-
<i>Staphylococcus capitis</i>	<i>Staphylococcus hominis</i>	-	-	<i>mecA/C</i> ^b	1	0	-
<i>Staphylococcus epidermidis</i>	<i>Staphylococcus haemolyticus</i>	-	-	<i>mecA/C</i>	7	1	<i>S. epidermidis</i> (1)
<i>Staphylococcus epidermidis</i>	<i>Staphylococcus haemolyticus</i>	-	-	-	1	0	-
<i>Staphylococcus epidermidis</i>	<i>Staphylococcus hominis</i>	-	-	<i>mecA/C</i>	5	1	<i>S. epidermidis</i> (1)
<i>Staphylococcus epidermidis</i>	<i>Staphylococcus hominis</i>	-	-	-	1	0	-
<i>Staphylococcus haemolyticus</i>	<i>Staphylococcus hominis</i>	-	-	-	1	0	-
<i>Streptococcus parasanguinis</i>	<i>Streptococcus salivarius</i>	-	-	-	1	0	-
<i>Streptococcus parasanguinis</i>	<i>Streptococcus viridans</i>	-	-	-	1	0	-
<i>Streptococcus salivarius</i>	<i>Streptococcus vestibularis</i>	-	-	-	1	0	-
Total Co-Detections					64	7	
Total Double Detections					57	6	
Total Triple Detections					6	1	
Total Quadruple Detections					1	0	

^a As identified by PCR/sequencing, the BIOFIRE® FILMARRAY® Blood Culture Identification (BCID) Panel, or the Xpert MRSA/SA BC test direct from specimen

^b AMR gene reported as "N/A" by the BIOFIRE BCID2 Panel





Technical Support Contact Information

bioMérieux is dedicated to providing the best customer support available. If you have any questions or concerns about this process, please contact the BIOFIRE Technical Support team for assistance.

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