

EXPANDED REFLEX PANEL:

BLOOD CULTURE IDENTIFICATION PANEL (BCID2)

October 18, 2022

Effective November 1, 2022, Pacific Diagnostic Laboratories (PDL) will be changing to an expanded BLOOD CULTURE IDENTIFICATION PANEL (BCID2) for positive blood cultures. BCID2 is a qualitative multiplexed nucleic acid-based 43 target panel. The panel can identify the most common bacteremia organisms, listed in the table below.

ORDER Lab will add this panel for positive blood cultures in accordance with the standard operating procedure.

RESULTS Detected DNA markers are critical results and will be called.

HOW TO USE Results of the BCID2 should be used to guide therapy. However, resistance to antibiotics can occur via multiple mechanisms. Positive blood culture bottles will continue to be cultured, and phenotypic susceptibility results will be reported to guide any necessary updates to therapy.

TESTS WHICH MAY HAVE THE BCID2 PANEL PERFORMED Blood Culture LAB10834/Blood Culture, Pediatric LAB1083

BLOOD CULTURE IDENTIFICATION PANEL (BCID2) TARGETS			
Gram-Positive Bacteria	Gram-Negative Bacteria	Yeast	Antimicrobial Resistant Genes
Enterococcus faecalis* Enterococcus faecium* Listeria monocytogenes Staphylococcus (genus) Staphylococcus aureus Staphylococcus epidermidis* Staphylococcus lugdunensis* Streptococcus (genus) Streptococcus agalactiae Streptococcus pneumoniae Streptococcus pyogenes	Acinetobacter baumannii complex Bacteroides fragilis* Enterobacterales (Order) Enterobacter cloacae complex Escherichia coli Klebsiella aerogenes* Klebsiella oxytoca Klebsiella pneumoniae group Proteus spp. Salmonella spp.* Serratia marcescens Haemophilus influenzae Neisseria meningitidis Pseudomonas aeruginosa Stenotrophomonas maltophilia*	Candida albicans Candida auris* Candida glabrata Candida krusei Candida parapsilosis Candida tropicalis Cryptococcus neoformans/gattii*	ESBL: CTX-M* Carbapenemases: IMP* KPC* NDM * OXA-48-like* VIM* Methicillin Resistance mecA/C gene mecA/C and MREJ(MRSA) * Vancomycin Resistance VanA/B gene

*Additional markers on the BCID2 panel

TECHNICAL QUESTIONS PLEASE CONTACT

Weiliang (William) Xie Ph.D. MLS (ASCP) MB
 PDL Technical Specialist for Microbiology
 office: (805) 324-9426
 email: wxie@sbch.org

FOR MORE INFORMATION PLEASE CONTACT PDL CLIENT SERVICES AT 805-879-8100

EXPANDED REFLEX PANEL:**BLOOD CULTURE IDENTIFICATION PANEL (BCID2)**

October 18, 2022

Detected markers will be reported as a result component of the blood culture. Please refer to the chart below for the result components that may be reported from this panel. We recommend verifying if your electronic medical record (EMR) requires any updates.

Test Name	Test ID	LAB USE ONLY (Not directly orderable)	CPT (Panel)	CDM
REFLEX BLOOD CULTURE PANEL BY PCR (BCID2)	1230119169	LAB10921	87154	30600414
Component Name/Result Code	LOINC	Component Name/Result Code	LOINC	
1 ANTIMICROBIAL RESISTANCE GENES [1230018901]		25 PSEUDOMONAS AERUGINOSA DNA [1230018866]		85780-5
2 CTX-M GENE [1230018875]	88250-6	26 STENOTROPHOMONAS MALTOPHILIA DNA [1230018867]		96312-4
3 IMP GENE [1230018876]	85498-4	27 GRAM POSITIVE BACTERIA [1230018903]		
4 KPC GENE [1230018877]	49617-4	28 ENTEROCOCCUS FAECALIS DNA [1230018890]		96304-1
5 MECA/C GENE [1230018879]	92968-7	29 ENTEROCOCCUS FAECIUM DNA [1230018891]		96305-8
6 MECA/C AND MREJ (MRSA) GENE [1230018885]	96309-0	30 LISTERIA MONOCYTOGENES DNA [1230018892]		85763-1
7 NDM GENE [1230018886]	73982-1	31 STAPHYLOCOCCUS SPP DNA [1230018893]		85764-9
8 OXA-48-LIKE GENE [1230018887]	85827-4	32 STAPHYLOCOCCUS AUREUS DNA [1230018894]		85765-6
9 VANA/B GENE [1230018888]	62261-3	33 STAPHYLOCOCCUS EPIDERMIDIS DNA [1230018895]		96310-8
10 VIM GENE [1230018889]	85501-5	34 STAPHYLOCOCCUS LUGDUNENSIS DNA [1230018896]		96311-6
11 GRAM NEGATIVE BACTERIA [1230018902]		35 STREPTOCOCCUS SPP DNA [1230018897]		85766-4
12 ACINETOBACTER CALCOACETICUS-BAUMANNII COMPLEX DNA [1230018853]		36 STREPTOCOCCUS AGALACTIAE (GROUP B) DNA [1230018898]		85767-2
13 BACTEROIDES FRAGILIS DNA [1230018854]	96301-7	37 STREPTOCOCCUS PNEUMONIAE DNA [1230018899]		85768-0
14 ENTEROBACTERIALES DNA [1230018855]	96306-6	38 STREPTOCOCCUS PYOGENES (GROUP A) DNA [1230018900]		85769-8
15 ENTEROBACTER CLOACAE COMPLEX DNA [1230018856]	85772-2	39 YEAST [1230018904]		
16 ESCHERICHIA COLI DNA [1230018857]	85773-0	40 CANDIDA SPP DNA [1230018906]		
17 KLEBSIELLA AEROGENES DNA [1230018858]	96308-2	41 CANDIDA ALBICANS DNA [1230018868]		85781-3
18 KLEBSIELLA OXYTOCA DNA [1230018859]	85774-8	42 CANDIDA AURIS DNA [1230018869]		96302-5
19 KLEBSIELLA PNEUMONIAE GROUP DNA [1230018860]	96307-4	43 CANDIDA GLABRATA DNA [1230018870]		85782-1
20 PROTEUS SPP DNA [1230018861]	85776-3	44 CANDIDA KRUSEI DNA [1230018871]		85783-9
21 SALMONELLA SPP DNA [1230018862]	96313-2	45 CANDIDA PARAPSILOSIS DNA [1230018872]		85784-7
22 SERRATIA MARCESCENS DNA [1230018863]	85777-1	46 CANDIDA TROPICALIS DNA [1230018873]		85785-4
23 HAEMOPHILUS INFLUENZAE DNA [1230018864]	85778-9	47 CRYPTOCOCCUS NEOFORMANS/GATTII DNA [1230018874]		96303-3
24 NEISSERIA MENINGITIDIS DNA [1230018865]	85779-7			

FOR MORE INFORMATION PLEASE CONTACT PDL CLIENT SERVICES AT 805-879-8100