

Date: August 11, 2021

Lab Alert: Blood Culture Organism Identification Updates

Dear Regional Pathology Services Clients,

In a continuous effort to improve patient care our Microbiology laboratory has updated our blood culture organism identification panel (BCID panel). The BCID panel is a reflex to a positive Blood Culture test (BLDCU).

This test uses a PCR-based approach to amplify DNA targets directly from positive blood cultures allowing rapid identification of pathogens and earlier transition to most appropriate therapy. A recent update to this test, known as BCID2, expands the number of targets that can be detected from the previous version. This test identifies 30 different gram-negative, gram-positive, and yeast pathogens (**Table 1**).

Changes are effective August 17, 2021. See below for test build information. Also, a link to the build can be found at <https://www.testmenu.com/nebraska/Tests/277319> on the effective date.

Table 1: List of Pathogens and Resistance Genes Detected

Gram-Positive Bacteria	Gram-Negative Bacteria	Yeast	Resistance Genes
<i>Enterococcus faecalis</i> *	<i>Acinetobacter baumannii</i> complex	<i>Candida albicans</i>	Carbapenemases
<i>Enterococcus faecium</i> *	<i>Bacteroides fragilis</i> *	<i>Candida auris</i> *	-IMP*
<i>Listeria monocytogenes</i>	Enterobacterales Order	<i>Candida glabrata</i>	-KPC
<i>Staphylococcus</i> genus	<i>Enterobacter cloacae</i> complex	<i>Candida krusei</i>	-OXA-48-like*
<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>	<i>Candida parapsilosis</i>	-NDM*
<i>Staphylococcus epidermidis</i> *	<i>Klebsiella aerogenes</i> *	<i>Candida tropicalis</i>	-VIM*
<i>Staphylococcus lugdunensis</i> *	<i>Klebsiella oxytoca</i>	<i>Cryptococcus</i>	Colistin Resistance
<i>Streptococcus</i> genus	<i>Klebsiella pneumoniae</i> group	<i>neoformans/gattii</i> *	-mcr-1*
<i>Streptococcus agalactiae</i>	<i>Proteus</i> spp.		ESBL
<i>Streptococcus pneumoniae</i>	<i>Salmonella</i> spp.*		-CTX-M*
<i>Streptococcus pyogenes</i>	<i>Serratia marcescens</i>		Methicillin Resistance
	<i>Haemophilus influenzae</i>		-mecA/C
	<i>Neisseria meningitidis</i>		-mecA/C and MREJ
	<i>Pseudomonas aeruginosa</i>		(MRSA)*
	<i>Stenotrophomonas maltophilia</i> *		Vancomycin Resistance
			-vanA/B

* Indicates new target on the BCID2 Panel

Interfaced Clients: Please deactivate reflex code BCID and replace with BCID2 below.

<u>OrderCode</u>	<u>OrderName</u>	<u>OrderLoinc</u>	<u>ResultCode</u>	<u>ResultName</u>	<u>RESULT LOINC</u>	<u>CPT</u>	<u>Change:</u>
BCID2	BLOOD PATH PANEL PCR	85762-3	CTXM	CTX-M	88250-6	87150 x43	New Result
BCID2	BLOOD PATH PANEL PCR		IMPB	IMP	85498-4		New Result
BCID2	BLOOD PATH PANEL PCR		KPC	KPC	49617-4		No change
BCID2	BLOOD PATH PANEL PCR		MCR1	mcr-1	86221-9		New Result
BCID2	BLOOD PATH PANEL PCR		MECAC	mecA/C	92968-7		New Result
BCID2	BLOOD PATH PANEL PCR		MECACM	mecA/c + MREJ (MRSA)	96309-0		New Result
BCID2	BLOOD PATH PANEL PCR		NDMB	NDM	73982-1		New Result
BCID2	BLOOD PATH PANEL PCR		OXA48	OXA-48-like	85827-4		New Result
BCID2	BLOOD PATH PANEL PCR		VANAB	vanA/B	62261-3		LOINC updated
BCID2	BLOOD PATH PANEL PCR		VIM	VIM	85501-5		New Result
BCID2	BLOOD PATH PANEL PCR		EFAES	Enter. faecalis	96304-1		New Result
BCID2	BLOOD PATH PANEL PCR		EFAEM	Enter. faecium	96305-8		New Result
BCID2	BLOOD PATH PANEL PCR		LIMON	L. monocytogenes	85763-1		LOINC updated
BCID2	BLOOD PATH PANEL PCR		STAPHY	Staphylococcus genus	85764-9		LOINC updated
BCID2	BLOOD PATH PANEL PCR		STAUR	Staph aureus	85765-6		LOINC updated
BCID2	BLOOD PATH PANEL PCR		SEPID	Staph. epidermidis	96310-8		New Result

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BCID2	BLOOD PATH PANEL PCR		SLUGD	Staph. lugdunensis	96311-6		New Result
BCID2	BLOOD PATH PANEL PCR		STREPT	Streptococcus genus	85766-4		LOINC updated
BCID2	BLOOD PATH PANEL PCR		STAGA	Strep agalactiae	85767-2		LOINC updated
BCID2	BLOOD PATH PANEL PCR		STPNE	Strep pneumoniae	85768-0		LOINC updated
BCID2	BLOOD PATH PANEL PCR		STPYO	Strep pyogenes	85769-8		LOINC updated
BCID2	BLOOD PATH PANEL PCR		ACBAU	A. baumannii complex	85770-6		Same result code but updated description and LOINC
BCID2	BLOOD PATH PANEL PCR		BFRAG	Bacteroides fragilis	96301-7		New Result
BCID2	BLOOD PATH PANEL PCR		ENTBAC	Enterobacterales	96306-6		Same result code but updated description and LOINC
BCID2	BLOOD PATH PANEL PCR		ENCLO	E. cloacae complex	85772-2		No change
BCID2	BLOOD PATH PANEL PCR		ESCOL	Escherichia coli	85773-0		LOINC updated
BCID2	BLOOD PATH PANEL PCR		KAERO	Klebsiella aerogenes	96308-2		New Result
BCID2	BLOOD PATH PANEL PCR		KLOXY	Kleb oxytoca	85774-8		LOINC updated
BCID2	BLOOD PATH PANEL PCR		KLPNE	Kleb pneumoniae	96307-4		LOINC updated
BCID2	BLOOD PATH PANEL PCR		PROTE	Proteus spp.	85776-3		Same result code but updated description and LOINC
BCID2	BLOOD PATH PANEL PCR		SALMSP	Salmonella spp.	96313-2		New Result
BCID2	BLOOD PATH PANEL PCR		SERRA	S. marcescens	85777-1		LOINC updated

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BCID2	BLOOD PATH PANEL PCR		HAINF	H. influenzae	85778-9		LOINC updated
BCID2	BLOOD PATH PANEL PCR		NEMEN	N. meningitidis	85779-7		LOINC updated
BCID2	BLOOD PATH PANEL PCR		PSEAER	Ps. aeruginosa	85780-5		LOINC updated
BCID2	BLOOD PATH PANEL PCR		SMALTO	Steno. maltophilia	96312-4		New Result
BCID2	BLOOD PATH PANEL PCR		CAALB	Candida albicans	85781-3		LOINC updated
BCID2	BLOOD PATH PANEL PCR		CAURIS	Candida auris	96302-5		New Result
BCID2	BLOOD PATH PANEL PCR		CAGLA	Candida glabrata	85782-1		LOINC updated
BCID2	BLOOD PATH PANEL PCR		CAKRU	Candida krusei	85783-9		LOINC updated
BCID2	BLOOD PATH PANEL PCR		CAPAR	Candida parapsilosis	85784-7		LOINC updated
BCID2	BLOOD PATH PANEL PCR		CATRO	Candida tropicalis	85785-4		LOINC updated
BCID2	BLOOD PATH PANEL PCR		CNEOF	C. neoformans/gattii	96303-3		New Result
BCID2	BLOOD PATH PANEL PCR		BCIDCM	Comments			No change

***For questions on interface build please contact rpsinterfacesupport@unmc.edu

24/7 Client Services 1-800-334-0459