



To: HUP, PAH, PPMC, HUP Cedar Providers

From: **Department of Pathology and Laboratory Medicine**
HUP Clinical Microbiology Laboratory
Laurel Glaser, MD, PhD, Director
Kyle Rodino, PhD, Assistant Director

Date: November 5, 2024

Re: **Rapid Identification of Gram-Negative Microorganisms from Blood Cultures at HUP, PPMC, HUP Cedar and GSPP**

The Clinical Microbiology Laboratory at HUP will implement the Roche ePlex® Gram Negative Blood Culture Identification Panel. There is no change in rapid blood culture identification at Chester County or Princeton Hospital and this change harmonizes rapid blood culture identification of Gram-negative organisms in the health system. This molecular assay will identify common Gram-negative organisms and a limited panel of antibiotic resistance markers from positive blood cultures. The panel will automatically be performed on all first-time positive blood cultures containing Gram-negative organisms. The laboratory will continue to offer the rapid Gram-positive blood culture Blood Culture Identification Panel. All molecular targets will be reported, followed by conventional culture and, if indicated, full susceptibility testing. Antibiotic guidance based on the rapid molecular results can be found at the [Antibiotic Stewardship website](#).

Assay Characteristics:

The assay is designed to identify common Gram-negative pathogens found in positive blood cultures. The rapid molecular method allows for identification within approximately 2 hours of the positive culture, instead of the conventional 18–24-hour timeframe, allowing for a decreased amount of time to optimal therapy. The panel includes targets for *Acinetobacter baumannii*, *Bacteroides fragilis*, *Citrobacter*, *Cronobacter sakazakii*, *Enterobacter* (non-cloacae complex), *Enterobacter cloacae* complex, *Escherichia coli*, *Fusobacterium necrophorum*, *Fusobacterium nucleatum*,

Haemophilus influenzae, Klebsiella oxytoca, Klebsiella pneumoniae, Morganella morganii, Neisseria meningitidis, Proteus, Proteus mirabilis, Pseudomonas aeruginosa, Salmonella, Serratia, Serratia marcescens, Stenotrophomonas maltophilia and CTX-M, IMP, KPC, NDM, OXA-23/OXA-48 and VIM resistance genes.

Example of Reporting in Penn Chart

Serratia marcescens Not Detected	Not Detected
Stenotrophomonas maltophilia Not Detected	Not Detected
CTXM Not Detected	Not Detected
IMP Not Detected	Not Detected
KPC Not Detected	Detected !
NDM Not Detected	Not Detected
OXA Not Detected	Not Detected
VIM Not Detected	Not Detected
Resulting Agency	HUP_CM
Narrative	
Test performed at Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104	
Specimen Collected: 10/03/24 10:00	

Results

BLOOD CULTURE GN ID PANEL

Status: Edited Result - FINAL Visible to patient: Yes (not seen) Next appt: None

0 Result Notes

Component	3 wk ago
Ref Range & Units	(10/3/24)
Comment (BCID)	SEE COMMENT
Comment: Acinetobacter baumannii detected by molecular assay, Carbapenemase gene detected. Infectious Diseases consultation is recommended.	
Acinetobacter baumannii	Detected !
Not Detected	
Bacteroides fragilis	Not Detected
Not Detected	
Citrobacter	Not Detected
Not Detected	
Cronobacter sakazakii	Not Detected
Not Detected	
Enterobacter (non-cloacae)	Not Detected
Not Detected	
Enterobacter cloacae complex	Not Detected
Not Detected	
Escherichia coli	Not Detected
Not Detected	
Fusobacterium necrophorum	Not Detected
Not Detected	
Fusobacterium nucleatum	Not Detected
Not Detected	
Haemophilus influenzae	Not Detected
Not Detected	
Klebsiella oxytoca	Not Detected
Not Detected	
Klebsiella pneumoniae group	Not Detected
Not Detected	
Morganella morganii	Not Detected
Not Detected	
Neisseria meningitidis	Not Detected
Not Detected	
Proteus	Not Detected
Not Detected	
Proteus mirabilis	Not Detected
Not Detected	
Pseudomonas aeruginosa	Not Detected
Not Detected	
Salmonella	Not Detected
Not Detected	
Serratia	Not Detected
Not Detected	

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