



Changes in Reporting Rapid Microbiology Panel Results with Beaker Implementation

Situation

Beaker has been implemented as the new lab information system. This allows the customization of reporting for rapid microbiology panel results.

Background

Previous results of rapid molecular panels including the Blood Culture ID Panel (BCID), Joint Infection Panel (JIP), and Pneumonia Panel (PNP) always reported every organism and associated resistant mechanism result without a clear sequence, resulting in challenges with readability and interpretation.

Assessment

Presenting rapid panel results with detected targets at the top of a report grouped with associated resistance, while negative results are available but not mixed with other results improves interpretability by clinicians. Adding a link to stewardship guidance will further improve the ability to interpret and act on results.

Recommendation

Rapid microbiology panel results are now presented with only positive results, which are highlighted in red. Negative targets are not reported unless relevant such as resistance genes for the detected organism(s). A list of panel targets is provided as a comment. Presentation of panel results may differ depending on where they are reviewed (Chart Review Tab vs. Summary Reports). See examples below of test results. Stewardship guidelines are now available in this report as well.

Example BCID Results in Chart Review Microbiology Report:

[Antimicrobial Stewardship Interpretation Guidance](#)
[Positive Rapid Blood Culture ID Panel Interpretation Guidance](#)

[Link to Stewardship Guidelines for Interpretation](#)

Direct Blood Pathogen Identification Panel 2

Collected 7/6/2026 03:11 Status: Final result Next appt: 07/10/2026 at 12:30 PM in Vascular Ultrasound (VASC ONE, WEST)

Test Result Released: Yes (not seen)

Specimen Information: Blood

0 Result Notes

Component	2 d ago
Ref Range & Units (hover)	
Staphylococcus species	Detected !
Staphylococcus aureus	Detected !
MecA/C and MREJ (MRSA)	Not Detected

Comment: Indicates methicillin susceptible Staphylococcus aureus.

Comment

Comment: This testing includes the following targets. DETECTED TARGETS, IF ANY, ARE REPORTED ABOVE.

Staphylococcus genus

Staphylococcus aureus

mecA/C and MREJ (MRSA)

Staphylococcus epidermidis

Staphylococcus lugdunensis

mecA/C (Methicillin resistance gene)

Streptococcus genus

Streptococcus pneumoniae

Streptococcus pyogenes (Group A)

Streptococcus agalactiae (Group B)

Enterococcus faecalis

Enterococcus faecium

vanA/vanB (VRE)

Listeria monocytogenes

Enterobacterales (order)

Escherichia coli

Klebsiella pneumoniae group

Klebsiella oxytoca

Klebsiella aerogenes

Enterobacter cloacae complex

Proteus spp.

Salmonella spp.

Serratia marcescens

CTX-M (ESBL)

KPC (carbapenemase)

NDM (carbapenemase)

OXA-48-like (carbapenemase)

IMP (carbapenemase)

Positive Panel Results, Relevant Negatives, and Microbiology Comments

List of all panel targets tested. If not reported as positive, consider negative

Same Result in Summary Tab, Micro Results Report:

07/06/2026 0311	07/06/2026 1849	Direct Blood Pathogen Identification Panel 2 [771767899] (Abnormal) Blood	Final result	Component	Value
				Staphylococcus species	Detected !
				Staphylococcus aureus	Detected !
				MecA/C and MREJ (MRSA)	Not Detected
				Comment	— ⓘ

Example of Pneumonia Panel Results in Chart Review Report:

Antimicrobial Stewardship Interpretation Guidance
Pneumonia Panel Interpretation Guidance

Link to Stewardship Guidelines for Interpretation

Order: 77

Pneumonia Panel

Collected 7/7/2026 23:36 Status: Final result Next apt: None

Test Result Released: No

Specimen Information: Bronchoalveolar Lavage (BAL); Respiratory

0 Result Notes

Component
Ref Range & Units (hover)
Comments

1 d ago
All panel targets are negative. See below for organisms tested.
Comment: All panel targets are negative. See below for organisms tested. This most commonly represents that no infectious pathogen is present and treatment is not indicated but rarely may represent detection of unusual or off target pathogen. See ASP guidance for more information. Link to guidance here (https://www.unmc.edu/intmed/_documents/id/asp/clinicpath-pneumonia-panel-guideline.pdf).

Staphylococcus aureus
mecA/C and MRSEJ (MRSA)
Streptococcus pneumoniae
Streptococcus pyogenes
Streptococcus agalactiae
Escherichia coli
Klebsiella pneumoniae group
Klebsiella oxytoca
Klebsiella aerogenes
Enterobacter cloacae complex
Proteus spp.
Serratia marcescens
CTX-M (ESBL)
KPC (carbapenemase)
NDM (carbapenemase)
OXA-48-like (carbapenemase)
IMP (carbapenemase)
VIM (carbapenemase)
Pseudomonas aeruginosa
A. baumannii complex
Haemophilus influenzae
Moraxella catarrhalis
Chlamydia pneumoniae
Legionella pneumophila
Mycoplasma pneumoniae
Adenovirus
Influenza A
Influenza B
Respiratory syncytial virus
Human rhinovirus/enterovirus
Human metapneumovirus

Negative Panel Results and Microbiology Comments

List of all panel targets tested. If not reported as positive, consider negative

Same Result in Summary Tab as Micro Results Report:

Micro (14 days across encounters)

Collected	Updated	Procedure	Lab Status	Component	Value
07/07/2026 2336	07/08/2026 0454	Pneumonia Panel [771980103]	Final result	Comments	All panel targets are negative. See below for organisms tested.
		Respiratory from Bronchoalveolar Lavage (BAL)			