



MINERVA LABS

Wound Pathogen Panel

Precision Diagnostics for Effective
Wound Care Management



 **CAP**
ACCREDITED ✓
COLLEGE of AMERICAN PATHOLOGISTS



Minerva Labs

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Introduction to Wound Care Testing



Wounds are more than physical injuries; they are ecosystems where microorganisms thrive. Accurate diagnosis of wound infections is crucial to guiding treatment and ensuring effective healing.

Key Facts:



Chronic wounds often harbor multiple pathogens that delay healing.



Accurate detection helps guide targeted therapies, minimizing complications and antibiotic misuse.

Minerva Labs' Wound Pathogen Panel:



Using **advanced PCR technology**, we illuminate the unseen pathogens in wounds, paving the way for targeted and precise care.

Testing Procedure

How Minerva Labs' Wound Pathogen Panel Works:



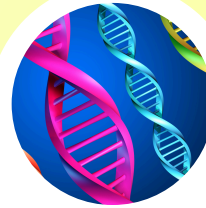
Sample Collection:

A swab is taken from the wound, capturing its microbial diversity.



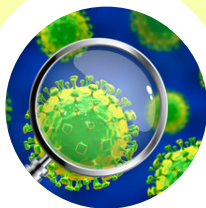
DNA Extraction:

Genetic material is isolated from the sample.



PCR Amplification:

Specific DNA sequences of common wound pathogens are amplified.



Detection & Identify:

Pathogens are identified through molecular analysis.



Antibiotic Stewardship:

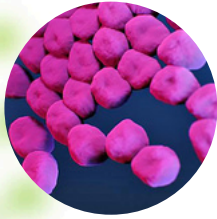
Antibiotic markers guide treatment decisions, ensuring effective care.





Pathogens and Resistance Markers

Bacteria and Protozoan Pathogens:



**Acinetobacter
baumannii**



**Escherichia
coli**

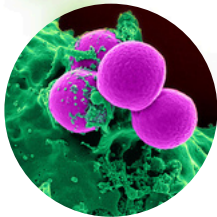


**Klebsiella
pneumoniae**

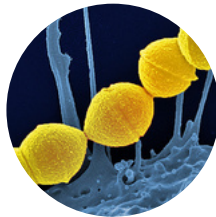


**Pseudomonas
aeruginosa**

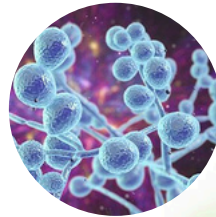
Fungi Pathogens:



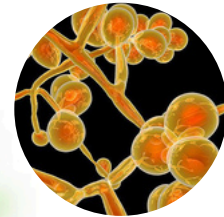
**Staphylococcus
aureus**



**Streptococcus
pyogenes**



**Candida
albicans**



Candida auris



Antibiotic Resistance Genes Identified:

- Methicillin/Oxacillin resistance (MRSA)
- Beta-Lactamases (KPC, CTX-M1)
- Fluoroquinolone resistance (MUT and WT)
- Vancomycin resistance

Benefits of Minerva Labs' Wound Care Testing



Why Choose Minerva Labs for RPP Diagnostics?



Rapid Turnaround: Results delivered within **24–48 hours**.



Precision Care: Helps clinicians reduce trial-and-error approaches.



Comprehensive Detection: Identifies bacterial and fungal pathogens.



Actionable Insights: Includes resistance profiles and treatment guidance.



Specimen Collection and Transport

Sample Collection Guidelines:



Step 1

Wash hands and wear **sterile gloves**.



Step 2

Clean the wound periphery with **antiseptic solution**.



Step 3

Swab the most active or purulent part of the wound, **gently rotate the swab** to collect cells.



Specimen Transport:



Step 1

Place the swab in a transport medium immediately.



Step 2

Label the container with the patient's **name**, **DOB**, and collection **date**.



Step 3

Store at **2–8°C** if there's a delay in transport.



Antibiotic Stewardship Program



Minerva Labs' Commitment to Responsible Antibiotic Use:



Provides evidence-based recommendations to clinicians.



Reduces antibiotic misuse and resistance risks.



Improves patient outcomes through tailored therapies.

Program Key Features



Detects resistance markers to guide optimal therapy.



Reduces **unnecessary antibiotic** use.



Supports clinicians with precise, actionable insights.



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Clinical
Laboratory
Improvements
Amendments



MINERVA LABS

Why Minerva Labs?

- ✓ **CAP-certified** and **CLIA-accredited** laboratory
- ✓ **Unmatched accuracy** and rapid results.
- ✓ **Comprehensive reports** tailored to clinicians' needs.

Contact Information:

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