PRIME PATH LAB

WOUND PCR TESTING FOR CHRONIC & ACUTE INFECTIONS

Molecular Pathogen Detection for Diabetic Ulcers, Pressure Injuries & Surgical Wounds

Precision. Speed. Actionable Therapy.

Chronic wounds affect more than 10.5 million Americans and consume an estimated $25 billion in annual healthcare spending. Wound infections are commonly polymicrobial—up to 90% in published case series yet conventional culture rarely captures the full microbial picture and routinely takes 3–5 days to resolve. **Prime Path Lab**' Wound PCR Panel identifies bacterial pathogens together with antimicrobial-resistance genes from a single swab, so wound care teams can move from empiric to targeted therapy quickly.

Why Choose Prime Path Lab for Wound PCR Testing ?

Polymicrobial & Culture-Resistant Detection
Identifies co-occurring Gram-positive, Gram-negative, and slow-growing organisms in a single wound swab.

Stewardship & Healing
Reduces unnecessary antibiotic exposure and supports timely surgical or biologic intervention.

24–48 Hour Turnaround
Faster pivot from broad-spectrum coverage to a targeted antimicrobial plan.

Resistance-Aware Reporting
MRSA, beta-lactamase, and Carbapenemase-resistance markers flagged alongside identity.

Did You Know?

- Diabetic foot ulcers are the leading cause of non-traumatic lower-limb amputation in the United States.
- Up to 50% of chronic wounds harbor antibiotic-resistant organisms, complicating empiric therapy.
- Biofilm-associated bacteria can be 1,000× more tolerant to antibiotics than their planktonic counterparts.

Clinical Insight

A wound that won't heal is infected — it's just that biofilm protects the microbial community from culture detection and from antibiotics. Our PCR panel decodes the full community plus resistance genes in 48 hours, turning months of empiric coverage into a directed plan.

Comprehensive Wound Pathogen Panel

Our PCR panel screens for aerobic bacteria and resistance markers relevant to wound care.

PATHOGENS & MARKERS DETECTED	
Bacterial Pathogens	**Antimicrobial Resistance Markers**
Staphylococcus aureus	mecA
MRSA	mefA
Streptococcus pyogenes	ermB, AmpC
E. coli	CTX-M,
Enterococcus faecalis	NDM / KPC / OXA-48
Klebsiella pneumoniae	vanA / vanB
Enterobacter cloacae	
Mycobacterium abscessus/fortuitum/chelonae	
Streptococcus agalactiae	

Specimen & Ordering

SPECIMEN REQUIREMENTS

Sterile wound swab of cleansed wound bed or deep tissue; tissue biopsy and aspirate also accepted. Avoid sampling superficial slough or eschar.

HOW TO ORDER

Turnaround : 24–48 hours from specimen receipt. Request **Prime Path Lab** wound collection kits from your account representative. Submit specimen with completed requisition via prepaid courier; results are delivered to the secure provider portal.

Who Benefits from This Test

Wound Care Clinics & Podiatrists

Personalize debridement and antimicrobial therapy with molecular evidence.

Surgical & Post-Op Settings

Detect SSI organisms earlier than culture allows, including drug-resistant strains.

Long-Term Care Facilities

Identify multi-drug-resistant pathogens in pressure injuries before complications escalate.

Infectious Disease Consultants

Receive resistance-aware reports that support stewardship and complex case management.

Who Should Get Tested

Chronic Non-Healing Wounds

>4–6 weeks without measurable progress despite standard wound care.

Diabetic Foot Ulcers with Clinical Infection

Erythema, drainage, malodor, or surrounding cellulitis.

Venous or Arterial Leg Ulcers

Worsening exudate, peri-wound inflammation, or treatment failure.

Burns and Trauma Wounds at High Risk for Polymicrobial Contamination

Targeted antimicrobial selection guided by molecular evidence.

Partner with Prime Path Lab

Help your patients heal faster with molecular wound diagnostics. Reach out to **Prime Path Lab** to set up kits and start ordering this week.

CONTACT & ORDERING INFORMATION

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