



ENT INFECTION PCR PANEL

Rapid Molecular Detection for
Ear, Nose & Throat Infections

Targeted. Stewardship-Smart. Same-Episode Answers.

ENT infections drive an estimated 30 million-plus U.S. clinic visits annually, yet viral, bacterial, and fungal etiologies are clinically indistinguishable on exam alone. The result is frequent empiric prescribing—the CDC estimates that 30–50% of antibiotic courses for acute respiratory and ENT illness in outpatient settings are unnecessary. **Prime Path Lab's** ENT Infection Panel applies real-time multiplex PCR to throat, nasal, or middle-ear specimens, returning a comprehensive pathogen and resistance profile in 24–48 hours.

Why Choose Prime Path Lab for ENT Infection PCR Testing?



Single-Specimen Coverage

Identifies bacterial pathogens in one assay—including co-infections.



Stewardship-Forward Reporting

Resistance markers reported alongside organism identity to guide first-choice therapy.



24–48 Hour Turnaround

Actionable answers in the same care episode, not days later.



Concierge Physician Service

Collection kits, courier pickup, EMR-friendly reports, and a dedicated account team.



Did You Know?

- Chronic and acute sinusitis affect more than 31 million U.S. adults each year, costing an estimated \$8 billion in direct healthcare spending.
- Antibiotic-resistant infections cause more than 35,000 deaths annually in the United States (CDC).
- Up to 60% of pediatric and adult patients receive antibiotics for ENT complaints that turn out to be viral.



Clinical Insight

Strep or mono pharyngitis? Three patients, identical exams, three completely different prescriptions. Our multiplex PCR ends the guesswork before the rapid strep is out of the drawer—one swab, one verdict, zero unnecessary amoxicillin.



What Our ENT Panel Detects

Our multiplex PCR panel covers the gram-positive and gram-negative bacteria and resistance markers most relevant to ENT infections in outpatient and inpatient care.

PATHOGENS & MARKERS DETECTED

Bacterial Pathogens

- ⊙ *Fusobacterium necrophorum*
- ⊙ *Haemophilus influenzae*
- ⊙ *Moraxella catarrhalis*
- ⊙ *Streptococcus pneumoniae*
- ⊙ *Bordetella pertussis*
- ⊙ *M. pneumoniae*
- ⊙ *Streptococcus pyogenes* (GAS)
- ⊙ *Pseudomonas aeruginosa*

Antimicrobial Resistance Markers

- ⊙ blaTEM
- ⊙ beta-lactamase
- ⊙ ermB, mefA
- ⊙ VIM / IMP

Specimen & Ordering



SPECIMEN REQUIREMENTS

Throat swab, nasal swab, or middle-ear aspirate in PCR-compatible transport medium. Provide the site of collection on the requisition.



HOW TO ORDER

Turnaround: 24–48 hours from specimen receipt. Request **Prime Path Lab** ENT collection kits from your account representative. Submit the requisition and labeled specimen via prepaid courier; secure electronic results follow in 24–48 hours.

Who Benefits from This Test



ENT & Otolaryngology Practices

Confirm or exclude bacterial involvement before escalation.



Primary Care & Pediatrics

Differentiate strep and atypical pathogens with one order.



Patients with Recurrent or Refractory Infection

Identify drug-resistant or unexpected organisms behind treatment failure.



Immunocompromised Cohorts

Detect opportunistic atypical bacteria culture frequently misses.

Who Should Get Tested

Sore Throat with Negative or Equivocal Rapid Strep

Confirm or exclude *S. pyogenes* and atypical pathogens before antibiotics.

Recurrent or Persistent Otitis Media

≥3 acute episodes in 6 months or treatment failure on first-line therapy.

Chronic or Recurrent Sinusitis

Symptoms >12 weeks or ≥4 acute episodes annually—identify resistant or atypical organisms driving the cycle.

Tonsillitis with Atypical Features

Suspected pyogenes or fusobacterium pharyngitis in adolescents and adults.

Treatment-Failure ENT Infections

No clinical improvement after a full course of guideline-directed empiric antibiotics.

Partner with Prime Path Lab

Replace guesswork with molecular clarity for your ENT cases. Contact **Prime Path Lab** to onboard your practice and start

CONTACT & ORDERING INFORMATION

Prime Path Lab



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