



OCULAR INFECTION PCR PANEL

**Precision Molecular Diagnostics for
Conjunctivitis, Keratitis & Endophthalmitis**

Sight-Saving. Sensitive. Results Before Vision Is Lost.

Ocular infections affect more than 1.5 million Americans each year, ranging from common bacterial and viral conjunctivitis to vision-threatening keratitis and endophthalmitis. Traditional culture and microscopy miss an estimated 30% of cases due to slow-growing or atypical organisms—and every delayed day risks visual loss. **Prime Path Lab** Ocular Infection PCR Panel detects bacterial, viral, fungal, and amoebic pathogens with antimicrobial-resistance markers in 24–48 hours, supporting earlier targeted therapy and better visual outcomes.

Why Choose Prime Path Lab for Ocular Infection PCR Testing?



Detects Difficult Organisms

Identifies HSV, VZV, fungi, and *Pseudomonas* bacteria that culture commonly misses.



Single Specimen, Broad Coverage

One swab or aspirate yields bacterial, viral, fungal, and resistance results.



24–48 Hour Turnaround

Actionable answers in time to preserve vision and reduce empiric overtreatment.



Specialty-Grade Support

Collection kits, courier service, secure portal reporting, and dedicated account support.



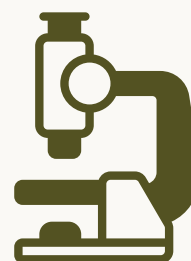
Did You Know?

- Microbial keratitis is a leading cause of monocular blindness worldwide, with delayed diagnosis a major risk factor.
- PCR demonstrates significantly higher sensitivity than culture for viral and fungal ocular infections in published comparative studies.



Clinical Insight

The cornea doesn't forgive empiric guessing. By the time culture confirms the presence of pathogens, your patient may already be losing a line of vision. Our panel returns the answer in 24–48 hours—the window where targeted therapy still saves sight.



What Our Ocular Panel Detects

Our multiplex PCR panel screens for bacterial, viral, and fungal pathogens most commonly implicated in ocular infections, with resistance markers reported when present.

PATHOGENS & MARKERS DETECTED

Bacterial Pathogens	Viral Pathogens	Fungal Pathogens	Antimicrobial Resistance Markers
<ul style="list-style-type: none">Chlamydia trachomatisPseudomonas aeruginosaStaphylococcus aureusNeisseria gonorrhoeae	<ul style="list-style-type: none">AdenovirusHSV-1VZVCMV (cytomegalovirus)	<ul style="list-style-type: none">Fusarium spp.	<ul style="list-style-type: none">VIM / IMPmecAblaTEMgyrA

Specimen & Ordering



SPECIMEN REQUIREMENTS

Conjunctival or corneal swab in PCR-compatible transport medium. Specify anatomic site and clinical context on the requisition.



HOW TO ORDER

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

Who Benefits from This Test



Ophthalmology & Optometry Practices

Confirm pathogen identity for keratitis, endophthalmitis, and recurrent conjunctivitis.



Urgent Care & Primary Care

Differentiate viral, bacterial, and allergic conjunctivitis with confidence.



Post-Surgical & Immunocompromised Patients

Detect opportunistic and resistant organisms quickly.

Who Should Get Tested

Acute Red Eye with Discharge, Photophobia, or Pain

Differentiate viral, bacterial, and allergic conjunctivitis before topical antibiotics.

Contact Lens Wearers with Keratitis or Unilateral Pain

Identify *Pseudomonas aeruginosa* and *Staphylococcus aureus*, the leading bacterial causes of contact lens-associated corneal infection.

Suspected Herpes Keratitis

Dendritic ulcers, stromal infiltrates, or recurrent unilateral red eye—confirm HSV or VZV.

Post-Surgical Ocular Infection

Cataract, LASIK, intravitreal injection, or corneal transplant patients with new redness, pain, or vision changes.

Partner with Prime Path Lab

Protect vision with molecular precision. Contact **Prime Path Lab** to onboard your ophthalmology or primary care practice in **days**.

CONTACT & ORDERING INFORMATION

Prime Path Lab



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