



Rapid Detection of
**OPHTHALMOLOGIC
PATHOGENS**

HealthTrackRx™ is the nation's Premier PCR testing laboratory, providing accurate and targeted molecular diagnostics. Our comprehensive technological advances in PCR testing improves patient care with rapid results leading to improved clinical treatment times. HealthTrackRx™ PCR testing is the solution, combining speed of pathogen identification with clinical actionability.

ELIMINATE THE GUESSWORK IN DIAGNOSING AND TREATING OPHTHALMOLOGIC PATHOGENS.

HealthTrackRx's Ophthalmology Infection pathogen assay utilizes the latest in quantitative RT-PCR (real-time reverse transcription polymerase chain reaction) technology to rapidly and reliably analyze your patient's sample.

Rapidly detect and differentiate ~99%¹ of the most relevant viral, bacterial, and fungal pathogens, including Adenovirus, Haemophilus influenzae, Streptococcus pneumoniae, and Aspergillus. More definitive diagnosis than common POC antigen assays.²

OPHTHALMOLOGIC DIAGNOSTICS FEATURES:

- ◆ **Reduces false negatives**
- ◆ **Detects polymicrobial infections**
- ◆ **Include one of the most extensive antibiotic resistance gene panels**
- ◆ **Unaffected by concurrent antibiotic use**
- ◆ **Reports consistently delivered within 24 hours**

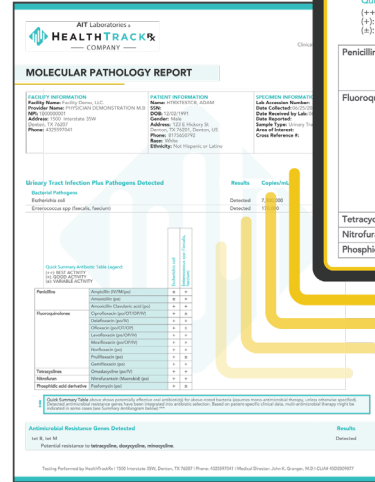
¹Internal Clinical Data
²Torres, A, Lee, N., Cilloniz, C et al. (2016 Nov 3). Laboratory diagnosis of pneumonia in the molecular age. European Respiratory Journal 48: 1764-1778. <http://ow.ly/2ajh304NuCn>

ANTIMICROBIAL RESISTANCE (AMR) SOLUTIONS

HealthTrackRx provides proprietary solutions to Antimicrobial Resistance.

Our patient specific Antibiogram removes guesswork by detecting antibiotic resistant genes, providing patients effective information for optimal treatment outcomes, saving costs, and mitigating risks.

- Antimicrobial Resistance:** HealthTrackRx is addressing the antibiotic resistance public health crisis through developing advancements in PCR technology and implementing innovative solutions for our clients that help you treat patients fast, and accurately.
- Antibiotic Stewardship:** We support antibiotic stewardship by reducing over utilization of broad-spectrum antibiotics, providing guidance that reduces unnecessary drug exposure and cost of repeat testing.



Quick Summary Antibiotic Table Legend:
 (++) BEST ACTIVITY
 (+) GOOD ACTIVITY
 (±) VARIABLE ACTIVITY

Antibiotic Class	Antibiotic	Escherichia coli (E.coli)	Enterococcus spp. (Enteroc)
Penicillins	Ampicillin (IV/IM/po)	++	+
	Amoxicillin (po)	++	++
Fluoroquinolones	Amoxicillin Clavulanic acid (po)	++	++
	Ciprofloxacin (po/OT/OP/IV)	++	±
	Delafoxacin (po/IV)	++	±
	Oxifloxacin (po/OT/OP)	++	±
	Levofloxacin (po/OP/IV)	++	±
	Moxifloxacin (po/OP/IV)	++	±
Tetracyclines	Norfloxacin (po)	++	±
	Gemifloxacin (po)	++	±
Nitrofurans	Omacycline (po/IV)	++	±
	Nitrofurantoin (Macrobid) (po)	++	±
Phosphonic acid derivative	Fosfomicin (po)	++	±

OPHTHALMOLOGY INFECTION

SAMPLE TYPE: Eye Swab, Lacrimal Fluid

Acinetobacter baumannii
 Adenovirus HAdV-B
 Aspergillus flavus, fumigatus, niger, terreus
 Candida albicans, glabrata, parapsilosis, tropicalis
 Candida auris
 Chlamydia pneumoniae
 Chlamydia trachomatis
 Coronavirus (229E, NL63, OC43,

and HKU1)
 Enterobacter aerogenes, cloacae
 Enterovirus A,B,C
 Enterovirus D68
 Escherichia coli
 Haemophilus influenzae
 Herpes simplex virus 1 & 2¹
 Human metapneumovirus
 Influenza virus A, B
 Klebsiella pneumoniae, oxytoca

Moraxella catarrhalis
 Mycoplasma genitalium, hominis
 Mycoplasma pneumoniae
 Neisseria gonorrhoeae
 Parainfluenza virus (types 1, 2, 3, 4)
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
 Respiratory syncytial virus
 Rhinovirus A, C

Rhizopus spp., Mucor spp.
 Serratia marcescens
 Staphylococcus aureus
 Staphylococcus spp.²
 Streptococcus agalactiae³
 Streptococcus pneumoniae
 Streptococcus pyogenes⁴
 Ureaplasma urealyticum, parvum
 Varicella zoster virus⁵

ANTIBIOTIC RESISTANCE GENES

VanA, VanB⁶
 ermB, C, mefA⁷
 SHV, KPC Groups⁸
 dfr (A1, A5), sul (1, 2)⁹
 mecA¹⁰

qnrA1, qnrA2, qnrB2¹¹
 tet B, tet M¹²
 IMP, NDM, VIM Groups¹³
 ACT, MIR, FOX, ACC Groups¹⁴
 OXA-48, -51¹⁵

CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups⁸

NOT TYPICALLY DETECTED BY CULTURE

- ◆ FUNGAL
- ◆ ANAEROBE
- ◆ SLOW GROWING
- ◆ STREPTOCOCCUS SPECIES
- ◆ NOT TYPICALLY TESTED BY CULTURE

PRACTICE WORKFLOW SOLUTIONS

- SimpliSWAB™ is our proprietary collection medium, that simplifies the collection process and features one-vial collection, regardless of the pathogen.
- Coordinated courier services are available, including FedEx, UPS or local courier.
- Clinically actionable reports delivered in an easy-to-read format, within 24 hours of sample receipt.
- In-network lab for most major medical insurance payors, Medicaid and Medicare.
- Integrates easily with EMR systems online via our Client Web Portal.

¹HSV-1, HSV-2

²Coagulase negative species: S. epidermidis, S. haemolyticus, S. lugdunensis, S. saprophyticus

³Group B Strep (GBS)

⁴Group A Strep

⁵VZV, Human Herpesvirus 3

⁶Vancomycin

⁷Macrolide, Lincosamide, Streptogramin

⁸Class A beta-lactamase

⁹Trimethoprim/Sulfamethoxazole

¹⁰Methicillin

¹¹Fluoroquinolone

¹²Tetracycline

¹³Class B metallo-beta-lactamase

¹⁴AmpC beta-lactamase

¹⁵Class D oxacillinase