

Infectious Disease Syndromic Menu

Not Typically Detected By Culture

- ◆ Fungal
- ◆ Protozoal
- ◆ Slow Growing
- ◆ Streptococcus Species
- ◆ Anaerobe
- ◆ Not Typically Tested by Culture

RESPIRATORY TRACT INFECTION PLUS INCLUDING COVID-19



Acinetobacter baumannii
Adenovirus HAdV-B
Aspergillus flavus, fumigatus, niger, terreus
Bordetella pertussis, parapertussis, bronchiseptica
Candida albicans, glabrata, parapsilosis, tropicalis
Chlamydia pneumoniae
Coronavirus (229E, NL63, OC43, and HKU1)
COVID-19 Coronavirus (SARS-CoV-2)

Enterobacter aerogenes, cloacae
Enterovirus (pan)
Enterovirus D68
Escherichia coli
Haemophilus influenzae
Human metapneumovirus
Influenza virus A, B
Klebsiella pneumoniae, oxytoca
Legionella pneumophila
Moraxella catarrhalis
Mycoplasma pneumoniae

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
*Streptococcus agalactiae*¹
Streptococcus pneumoniae

Antibiotic Resistance Genes Below

*Streptococcus pyogenes*²

Add-on Only
Candida auris
Chlamydia trachomatis
Mycobacterium avium-intracellulare, kansasii
Mycobacterium tuberculosis
Neisseria gonorrhoeae

SAMPLE TYPE: Nasopharynx Swab, Cough Sputum Swab, Throat Swab

COMMON RESPIRATORY BACTERIAL/VIRAL INFECTION



Adenovirus HAdV-B
Chlamydia pneumoniae
COVID-19 Coronavirus (SARS-CoV-2)
Enterovirus D68

Haemophilus influenzae
Human metapneumovirus
Influenza virus A, B
Klebsiella pneumoniae, oxytoca

Moraxella catarrhalis
Mycoplasma pneumoniae
Respiratory syncytial virus
Staphylococcus aureus

Antibiotic Resistance Genes Below

Streptococcus pneumoniae

SAMPLE TYPE: Nasopharynx Swab, Cough Sputum Swab, Throat Swab

VIRAL RESPIRATORY INFECTION



Adenovirus HAdV-B
Coronavirus (229E, NL63, OC43, and HKU1)
COVID-19 Coronavirus (SARS-CoV-2)

Enterovirus (pan)
Enterovirus D68
Human metapneumovirus

Influenza virus A, B
Parainfluenza virus (types 1, 2, 3, 4)
Respiratory syncytial virus

Does Not Include Antibiotic Resistance Genes

Rhinovirus A, C

SAMPLE TYPE: Nasopharynx Swab, Cough Sputum Swab, Throat Swab

BACTERIAL PNEUMONIA



Acinetobacter baumannii
Bordetella pertussis, parapertussis, bronchiseptica
Chlamydia pneumoniae

Haemophilus influenzae
Klebsiella pneumoniae, oxytoca
Legionella pneumophila
Moraxella catarrhalis

Mycoplasma pneumoniae
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus pneumoniae

Antibiotic Resistance Genes Below

*Streptococcus pyogenes*²

SAMPLE TYPE: Cough Sputum Swab

INFLUENZA, COVID-19 & RSV



COVID-19 Coronavirus (SARS-CoV-2)

Influenza virus A, B

Respiratory syncytial virus

Does Not Include Antibiotic Resistance Genes

SAMPLE TYPE: Nasopharynx Swab, Cough Sputum Swab, Throat Swab

PHARYNGITIS



Adenovirus
Bordetella pertussis, parapertussis, bronchiseptica
Epstein-Barr virus³
Fusobacterium nucleatum, necrophorum

Haemophilus influenzae
Moraxella catarrhalis
Parainfluenza virus (types 1, 2, 3, 4)
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii

Antibiotic Resistance Genes: dfr (A1, A5), sul (1, 2), ermB, C; mefA, and tet B, tet M only

*Streptococcus agalactiae*¹
*Streptococcus anginosus, constellatus, intermedius*⁴
*Streptococcus mitis, sanguis, mutans*⁵
Streptococcus pneumoniae

*Streptococcus pyogenes*²

SAMPLE TYPE: Throat Swab

For COVID-19 Coronavirus (SARS-CoV-2)

This product has not been FDA cleared or approved by FDA, but has been authorized by FDA under an EUA for use by authorized laboratories; This product has been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens; and The emergency use of this product is only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the declaration is terminated or the authorization is revoked sooner.

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-4B,-5¹⁵
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups⁸



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All Menus

¹Group B Strep (GBS)
²Group A Strep
³Human Herpesvirus 4, EBV
⁴Viridans anginosus group

⁵Viridans group
⁶Vancomycin
⁷Macrolide, Lincosamide, Streptogramin

⁸Class A beta-lactamase
⁹Trimethoprim/Sulfamethoxazole
¹⁰Methicillin
¹¹Fluoroquinolone

¹²Tetracycline
¹³Class B metallo-beta-lactamase
¹⁴AmpC beta-lactamase
¹⁵Class D oxacillinase

Infectious Disease Syndromatic Menus

Not Typically Detected By Culture

- ◆ Fungal
- ◆ Protozoal
- ◆ Slow Growing
- ◆ Streptococcus Species
- ◆ Anaerobe
- ◆ Not Typically Tested by Culture

URINARY TRACT INFECTION PLUS



Acinetobacter baumannii
Candida albicans, glabrata, parapsilosis, tropicalis
 Citrobacter freundii
 Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
SAMPLE TYPE: Urine Swab, Catheter Swab

Escherichia coli
 Klebsiella pneumoniae, oxytoca
 Morganella morganii
Mycoplasma genitalium, hominis
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa

Serratia marcescens
 Staphylococcus aureus
 Staphylococcus spp.¹
Streptococcus agalactiae²
Streptococcus pyogenes³
Trichomonas vaginalis

Antibiotic Resistance Genes Below

Ureaplasma urealyticum, parvum

Add-on Only
Candida auris

URINARY TRACT INFECTION



Acinetobacter baumannii
Candida albicans, glabrata, parapsilosis, tropicalis
 Citrobacter freundii

Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
 Escherichia coli
 Klebsiella pneumoniae, oxytoca

Morganella morganii
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
 Staphylococcus aureus

Antibiotic Resistance Genes Below

Staphylococcus spp.¹
Streptococcus agalactiae²

GASTROINTESTINAL INFECTION



Adenovirus HAdV-F, HAdV-G
 Astrovirus, Sapovirus G1, G2
Bacteroides fragilis
 Campylobacter jejuni, coli
 Clostridioides difficile (toxins A, B)
 Clostridium perfringens, novyi, septicum
Cryptosporidium hominis, parvum, felis
Cyclospora cayentanensis, Cystoisospora belli
Dientamoeba fragilis, Entamoeba
SAMPLE TYPE: Rectal Swab, Stool Swab

histolytica
 Enteroaggregative E. coli (EAEC)
 Enteroinvasive E. coli (EIEC) / Shigella spp.
 Enteropathogenic E. coli (EPEC)
 Enterotoxigenic E. coli (ETEC)
 Enterovirus A, B, C
 Enterovirus D68
Giardia intestinalis
Helicobacter pylori
Listeria monocytogenes

Microsporidium (Enterocytozoon bieneusi, Encephalitozoon intestinalis)
 Norovirus (Genogroup 1, 2)
 Rotavirus A, B
Salmonella enterica
 Shiga toxin-producing E. coli (STEC)
 Shiga toxin-producing E. coli 0157 (STEC 0157)
 Vibrio parahaemolyticus, vulnificus, cholerae

Antibiotic Resistance Genes Below

Yersinia enterocolitica

Add-on Only
Candida albicans, glabrata, parapsilosis, tropicalis
Candida auris

OPHTHALMOLOGY INFECTION



Acanthamoeba castellanii, polyphaga; Vermamoeba (Hartmannella) vermiformis
Acinetobacter baumannii
 Adenovirus
Alternaria spp., Curvularia lunata, Penicillium spp.
Aspergillus flavus, fumigatus, niger, terreus
 Bacillus cereus, thuringiensis
Candida albicans, glabrata, parapsilosis, tropicalis
Chlamydia trachomatis
 Citrobacter freundii
Corynebacterium jeikeium, striatum, tuberculostearicum

Cutibacterium (Propionibacterium) acnes
 Cytomegalovirus⁴
 Demodex folliculorum
 Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
 Enterovirus (pan)
 Epstein-Barr virus⁵
 Escherichia coli
Fusarium oxysporum, solani
Fusobacterium nucleatum, necrophorum
 Haemophilus influenzae
 Herpes simplex virus 1, 2⁶
 Klebsiella pneumoniae, oxytoca

Microsporidia (Encephalitozoon hellum, cuniculi, Nosema (Vittaforma) ocularum)
 Moraxella catarrhalis
 Morganella morganii
Mycobacterium spp.
Neisseria gonorrhoeae
 Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
Rhizopus spp., Mucor spp.
 Staphylococcus aureus
 Staphylococcus spp.¹

Antibiotic Resistance Genes Below

Streptococcus agalactiae²
Streptococcus anginosus, constellatus, intermedius⁷
Streptococcus mitis, sanguis, mutans⁸
Streptococcus pneumoniae
Streptococcus pyogenes³
Toxoplasma gondii
 Varicella zoster virus⁹

SAMPLE TYPE: Eye Swab, Vitreous Fluid, Lacrimal Fluid

OTOLARYNGOLOGY INFECTION



Acinetobacter baumannii
 Adenovirus
Alternaria spp., Curvularia lunata, Penicillium spp.
Aspergillus flavus, fumigatus, niger, terreus
Bordetella pertussis, parapertussis, bronchiseptica
Candida albicans, glabrata, parapsilosis, tropicalis
Chlamydia trachomatis
Corynebacterium jeikeium, striatum, tuberculostearicum

Cutibacterium (Propionibacterium) acnes
 Cytomegalovirus⁴
 Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
 Enterovirus (pan)
 Epstein-Barr virus⁵
 Escherichia coli
Fusarium oxysporum, solani
Fusobacterium nucleatum, necrophorum
 Haemophilus influenzae
 Herpes simplex virus 1, 2⁶
 Klebsiella pneumoniae, oxytoca

Moraxella catarrhalis
Neisseria gonorrhoeae
 Parainfluenza virus (types 1, 2, 3, 4)
 Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
Rhizopus spp., Mucor spp.
 Staphylococcus aureus
Streptococcus agalactiae²
Streptococcus anginosus, constellatus, intermedius⁷

Antibiotic Resistance Genes Below

Streptococcus mitis, sanguis, mutans⁸
Streptococcus pneumoniae
Streptococcus pyogenes³
 Varicella zoster virus⁹

SAMPLE TYPE: Nasopharynx swab, Throat swab, Ear swab, Tympanocentesis fluid

Antibiotic Resistance Genes

VanA, VanB¹⁰
 ermB, C, mefA¹¹
 SHV, KPC Groups¹²

dfr (A1, A5), sul (1, 2)¹³
 mecA¹⁴
 qnrA1, qnrA2, qnrB2¹⁵

tet B, tet M¹⁶
 IMP, NDM, VIM Groups¹⁷
 ACT, MIR, FOX, ACC Groups¹⁸

OXA-48-, 51¹⁹
 CTX-M1 (15), M2 (2), M9 (9), M8/25
 Groups¹²



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¹Coagulase negative species: S. epidermidis, S. haemolyticus, S. lugdunensis, S. saprophyticus
²Group B Strep (GBS)
³Group A Strep

⁴Human Herpesvirus 5, CMV
⁵Human Herpesvirus 4, EBV
⁶HSV-1, HSV-2
⁷Viridans anginosus group
⁸Viridans group
⁹Human Herpesvirus 3, VZV

¹⁰Vancomycin
¹¹Macrolide, Lincosamide, Streptogramin
¹²Class A beta-lactamase
¹³Trimethoprim/Sulfamethoxazole
¹⁴Methicillin

¹⁵Fluoroquinolone
¹⁶Tetracycline
¹⁷Class B metallo-beta-lactamase
¹⁸AmpC beta-lactamase
¹⁹Class D oxacillinase



All Menus

Infectious Disease Syndromatic Menus

Not Typically Detected By Culture

- ◆ Fungal
- ◆ Protozoal
- ◆ Slow Growing
- ◆ Streptococcus Species
- ◆ Anaerobe
- ◆ Not Typically Tested by Culture

WOUND



Bacterial/Viral

Acinetobacter baumannii
Bacteroides fragilis, vulgatus
Burkholderia cepacia, pseudomallei
Citrobacter freundii
Clostridium perfringens, novyi, septicum
Corynebacterium jeikeium, striatum, tuberculostrictum
Cutibacterium (Propionibacterium) acnes
Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
Escherichia coli
Finegoldia magna
Haemophilus influenzae

Herpes simplex virus 1, 2¹
Klebsiella pneumoniae, oxytoca
Mycobacterium abscessus, chelonae, fortuitum
Mycobacterium avium-intracellulare, kansasii
Mycobacterium marinum, ulcerans
Mycoplasma genitalium, hominis
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Salmonella enterica
Serratia marcescens
Staphylococcus aureus

Staphylococcus spp.²
Stenotrophomonas maltophilia
Streptococcus agalactiae³
Streptococcus pneumoniae
Streptococcus pyogenes⁴
Varicella zoster virus⁵
Vibrio cholerae, parahaemolyticus, vulnificus
Fungal
Aspergillus flavus, fumigatus, niger, terreus
Blastomyces dermatitidis
Candida albicans, glabrata, parapsilosis, tropicalis
Epidermophyton floccosum
Fusarium oxysporum, solani

Antibiotic Resistance Genes Below

Malassezia furfur, restricta, sympodialis, globosa
Microsporium audouinii, canis, gypseum
Sporothrix schenckii
Trichophyton mentagrophytes/interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum
Trichosporon mucoides, asahii

Add-on Only
Candida auris

SAMPLE TYPE: Wound Swab, Joint Aspiration, Wound Tissue

NAIL/PARONYCHIA, HAIR



Bacterial/Viral

Bacteroides fragilis, vulgatus
Enterobacter aerogenes, cloacae
Enterococcus faecalis, faecium
Escherichia coli
Klebsiella pneumoniae, oxytoca
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii
Proteus mirabilis, vulgaris

Pseudomonas aeruginosa
Serratia marcescens
Staphylococcus aureus
Staphylococcus spp.²
Streptococcus agalactiae³
Streptococcus pyogenes⁴
Fungal
Aspergillus flavus, fumigatus, niger, terreus

Blastomyces dermatitidis
Candida albicans, glabrata, parapsilosis, tropicalis
Epidermophyton floccosum
Fusarium oxysporum, solani
Malassezia furfur, restricta, sympodialis, globosa
Microsporium audouinii, canis, gypseum
Trichophyton mentagrophytes/interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum

Antibiotic Resistance Genes Below

interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum
Trichosporon mucoides, asahii

Add-on Only
Candida auris

SAMPLE TYPE: Nail Clipping, Paronychia Tissue, Hair

ONYCHOMYCOSIS



Aspergillus flavus, fumigatus, niger, terreus
Blastomyces dermatitidis
Candida albicans, glabrata, parapsilosis, tropicalis
Epidermophyton floccosum
Fusarium oxysporum, solani

Malassezia furfur, restricta, sympodialis, globosa
Microsporium audouinii, canis, gypseum
Pseudomonas aeruginosa
Staphylococcus aureus
Trichophyton mentagrophytes/interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum

interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum
Trichosporon mucoides, asahii

Antibiotic Resistance Genes Below

Add-on Only
Candida auris

SAMPLE TYPE: Nail Clipping

MRSA



Staphylococcus aureus

SAMPLE TYPE: Nasopharynx Swab

Antibiotic Resistance Gene: mecA Only

Antibiotic Resistance Genes

VanA, VanB⁹
ermB, C, mecA⁷
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-4B-, 51¹⁵
CTX-M1 (15), M2 (2), M9 (9), M8/25
Groups¹⁶



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All Menus

¹HSV-1, HSV-2

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

³Group B Strep (GBS)

⁴Group A Strep

⁵Human Herpesvirus 3, VZV

⁶Vancomycin

⁷Macrolide, Lincosamide,

Streptogramin

⁸Class A beta-lactamase

⁹Trimethoprim/Sulfamethoxazole

¹⁰Methicillin

¹¹Fluoroquinolone

¹²Tetracycline

¹³Class B metallo-beta-lactamase

¹⁴AmpC beta-lactamase

¹⁵Class D oxacillinase