

# Infectious Disease Syndromatic Menus

## Not Typically Detected By Culture

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

### BRONCHITIS/BRONCHIOLITIS/PNEUMONIA



**Acinetobacter baumannii**  
 Adenovirus HAdV-B  
**Bordetella pertussis, parapertussis, bronchiseptica**  
**Candida albicans, parapsilosis, tropicalis**  
**Candida glabrata**  
**Candida krusei**  
**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  
 Serratia marcescens  
 Staphylococcus aureus  
**Streptococcus agalactiae<sup>1</sup>**  
**Streptococcus pneumoniae**  
**Streptococcus pyogenes<sup>2</sup>**

#### Antibiotic Resistance Genes Below

**Add-on Only**  
**Chlamydia trachomatis**  
**Mycobacterium tuberculosis**  
**Neisseria gonorrhoeae**

**SAMPLE TYPE:** Nasopharyngeal/Nares, Oropharyngeal, Cough Sputum, BAL

### 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:** Nasopharyngeal/Nares, Oropharyngeal, Cough Sputum, BAL

### 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:** Nasopharyngeal/Nares, Oropharyngeal, Cough Sputum, BAL

### 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<sup>2</sup>**

**SAMPLE TYPE:** Cough Sputum, BAL

### 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:** Nasopharyngeal/Nares, Orophayngeal, Cough Sputum, BAL

### PHARYNGITIS



Adenovirus  
**Bordetella pertussis, parapertussis, bronchiseptica**  
 COVID-19 Coronavirus (SARS-CoV-2)  
 Enterovirus (pan)  
 Epstein-Barr virus<sup>3</sup>  
 Fusobacterium nucleatum, necrophorum  
 Haemophilus influenzae  
 Moraxella catarrhalis  
 Parainfluenza virus (types 1, 2, 3, 4)

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

**Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii**  
**Streptococcus agalactiae<sup>1</sup>**  
**Streptococcus anginosus, constellatus, intermedius<sup>4</sup>**

**Streptococcus mitis, sanguinis, mutans<sup>5</sup>**  
**Streptococcus pneumoniae**  
**Streptococcus pyogenes<sup>2</sup>**

**SAMPLE TYPE:** Oropharyngeal

#### 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; 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, VanB<sup>6</sup>  
ermB, C; mefA<sup>7</sup>  
SHV, KPC Groups<sup>8</sup>

dfr (A1, A5), sul (1, 2)<sup>9</sup>  
mecA<sup>10</sup>  
qnrA1, qnrA2, qnrB2<sup>11</sup>

tet B, tet M<sup>12</sup>  
IMP, NDM, VIM Groups<sup>13</sup>  
ACT, MIR, FOX, ACC Groups<sup>14</sup>

OXA-48,-51<sup>15</sup>  
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups<sup>8</sup>



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

<sup>5</sup>Viridans group  
<sup>6</sup>Vancomycin  
<sup>7</sup>Macrolide, Lincosamide, Streptogramin

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

<sup>12</sup>Tetracycline  
<sup>13</sup>Class B metallo-beta-lactamase  
<sup>14</sup>AmpC beta-lactamase  
<sup>15</sup>Class D oxacillinase



All Menus

# Infectious Disease Syndromatic Menus

## Not Typically Detected By Culture

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

### GENITO/STI



Acinetobacter baumannii  
Actinomyces israelii  
Atopobium vaginae  
Bacteroides fragilis  
BVAB 2, 3 bacterial vaginosis-associated bacteria 2, 3), Mobiluncus spp.  
Candida albicans, parapsilosis, tropicalis  
Candida glabrata  
Candida krusei  
Chlamydia trachomatis  
Citrobacter freundii

Enterobacter aerogenes, cloacae  
Enterococcus faecalis, faecium  
Escherichia coli  
Gardnerella vaginalis  
Klebsiella pneumoniae, oxytoca  
Megasphaera (Types 1, 2)  
Morganella morganii  
Mycoplasma genitalium, hominis  
Neisseria gonorrhoeae  
Proteus mirabilis, vulgaris  
Pseudomonas aeruginosa

Serratia marcescens  
Staphylococcus aureus  
Staphylococcus spp.<sup>1</sup>  
Streptococcus agalactiae<sup>2</sup>  
Streptococcus pyogenes<sup>3</sup>  
Trichomonas vaginalis  
Ureaplasma urealyticum

#### Antibiotic Resistance Genes Below

**Add-on Only**  
High Risk HPV types 16, 39, 26, 18, 51, 53, 31, 52, 66, 33, 58, 73, 35, 59, 82, 45, 56, 68, 67, 69, 70

**SAMPLE TYPE:** Urine, Vaginal, Cervical, Endometrial, Vulva, Labia, Perineal, Rectal, Oropharyngeal, Penile, Prostatic/Seminal Fluid

### SEXUALLY TRANSMITTED INFECTION



Chlamydia trachomatis  
Mycoplasma genitalium, hominis

Neisseria gonorrhoeae  
Trichomonas vaginalis

Ureaplasma urealyticum

#### Antibiotic Resistance Genes Below

**Add-on Only**  
High Risk HPV types 16, 39, 26, 18, 51, 53, 31, 52, 66, 33, 58, 73, 35, 59, 82, 45, 56, 68, 67, 69, 70

**SAMPLE TYPE:** Urine, Vaginal, Cervical, Endometrial, Vulva, Labia, Perineal, Rectal, Oropharyngeal, Penile, Prostatic/Seminal Fluid

### VAGINITIS



Atopobium vaginae  
BVAB 2, 3 (bacterial vaginosis-associated bacteria 2, 3), Mobiluncus spp.  
Candida albicans, parapsilosis, tropicalis  
Candida glabrata

Candida krusei  
Enterococcus faecalis, faecium  
Escherichia coli  
Mycoplasma genitalium, hominis  
Staphylococcus aureus

Streptococcus agalactiae<sup>2</sup>  
Trichomonas vaginalis  
Ureaplasma urealyticum

#### Antibiotic Resistance Genes Below

**Add-on Only**  
High Risk HPV types 16, 39, 26, 18, 51, 53, 31, 52, 66, 33, 58, 73, 35, 59, 82, 45, 56, 68, 67, 69, 70

**SAMPLE TYPE:** Vaginal

### STI-VAGINITIS



Atopobium vaginae  
BVAB 2, 3 (bacterial vaginosis-associated bacteria 2, 3), Mobiluncus spp.  
Candida albicans, parapsilosis, tropicalis  
Candida glabrata

Candida krusei  
Chlamydia trachomatis  
Enterococcus faecalis, faecium  
Escherichia coli  
Gardnerella vaginalis

Herpes simplex virus 1  
Herpes simplex virus 2  
Mycoplasma genitalium, hominis  
Neisseria gonorrhoeae  
Staphylococcus aureus

#### Antibiotic Resistance Genes Below

**Add-on Only**  
High Risk HPV types 16, 39, 26, 18, 51, 53, 31, 52, 66, 33, 58, 73, 35, 59, 82, 45, 56, 68, 67, 69, 70

**SAMPLE TYPE:** Vaginal

### CHLAMYDIA, GONORRHEA & TRICHOMONAS



Chlamydia trachomatis      Neisseria gonorrhoeae      Trichomonas vaginalis

**SAMPLE TYPE:** Urine, Vaginal, Cervical, Endometrial, Vulva, Labia, Perineal, Rectal, Oropharyngeal, Penile, Prostatic/Seminal Fluid

#### Does Not Include Antibiotic Resistance Genes

### GENITAL ULCER



Chlamydia trachomatis  
Haemophilus ducreyi

Herpes simplex virus 1  
Herpes simplex virus 2

Klebsiella (Calymmatobacterium) granulomatis  
Treponema pallidum\*

**SAMPLE TYPE:** Genital Ulcer

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

**Add-on Only**  
Human Monkeypox virus

### HERPES SIMPLEX VIRUS TYPING



Herpes simplex virus 1      Herpes simplex virus 2

**SAMPLE TYPE:** Genital Ulcer/Lesion, Ulcer/Lesion, Vaginal, Rectal, Oropharyngeal, Nasopharyngeal

#### Does Not Include Antibiotic Resistance Genes

#### Antibiotic Resistance Genes

VanA, VanB<sup>5</sup>  
ermB, C; mefA<sup>6</sup>  
SHV, KPC Groups<sup>7</sup>

dfr (A1, A5), sul (1, 2)<sup>8</sup>  
mecA<sup>9</sup>  
qnrA1, qnrA2, qnrB2<sup>10</sup>

tet B, tet M<sup>11</sup>  
IMP, NDM, VIM Groups<sup>12</sup>  
ACT, MIR, FOX, ACC Groups<sup>13</sup>

OXA-48-, 51<sup>14</sup>  
CTX-M1 (15), M2 (2), M9 (9), M8/25  
Groups<sup>7</sup>



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All Menus

<sup>1</sup>Coagulase negative species: S. epidermidis, S. haemolyticus, S. lugdunensis, S. saprophyticus  
<sup>2</sup>Group B Strep (GBS)

<sup>3</sup>Group A Strep  
<sup>4</sup>Syphilis  
<sup>5</sup>Vancomycin  
<sup>6</sup>Macrolide, Lincosamide, Streptogramin

<sup>7</sup>Class A beta-lactamase  
<sup>8</sup>Trimethoprim/Sulfamethoxazole  
<sup>9</sup>Methicillin  
<sup>10</sup>Fluoroquinolone  
<sup>11</sup>Tetracycline

<sup>12</sup>Class B metallo-beta-lactamase  
<sup>13</sup>AmpC beta-lactamase  
<sup>14</sup>Class D oxacillinase

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- ◆ 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**  
 Escherichia coli  
 Klebsiella pneumoniae, oxytoca  
 Morganella morganii  
**Mycoplasma genitalium, hominis**

Proteus mirabilis, vulgaris  
 Pseudomonas aeruginosa  
 Serratia marcescens  
 Staphylococcus aureus  
 Staphylococcus spp.<sup>1</sup>

#### Antibiotic Resistance Genes Below

**Streptococcus agalactiae**<sup>2</sup>  
**Streptococcus pyogenes**<sup>3</sup>  
**Trichomonas vaginalis**  
**Ureaplasma urealyticum**

**SAMPLE TYPE:** Urine

### 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.<sup>1</sup>  
**Streptococcus agalactiae**<sup>2</sup>

**SAMPLE TYPE:** Urine

### GASTROINTESTINAL INFECTION



Adenovirus HAdV-F, HAdV-G  
 Astrovirus, Sapovirus G1, G2  
 Campylobacter jejuni, coli  
**Clostridioides difficile (toxins A, B)**  
**Cryptosporidium hominis, parvum, felis**  
**Cyclospora cayentanensis, Cystoisospora belli**  
**Dientamoeba fragilis, Entamoeba histolytica**

Enteroaggregative E. coli (EAEC)  
 Enteroinvasive E. coli (EIEC) / Shigella spp.  
 Enteropathogenic E. coli (EPEC)  
 Enterotoxigenic E. coli (ETEC)  
**Giardia duodenalis (lamblia)**  
**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 O157 (STEC O157)  
 Vibrio parahaemolyticus, vulnificus, cholerae  
**Yersinia enterocolitica**

#### Antibiotic Resistance Genes Below: minus mecA

**Add-on Only**  
**Candida albicans, parapsilosis, tropicalis**  
**Candida glabrata**  
**Candida krusei**  
**Chlamydia trachomatis**  
**Neisseria gonorrhoeae**  
**Trichomonas vaginalis**

**SAMPLE TYPE:** Rectal (fecal), Stool

### 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  
 Cytomegalovirus<sup>4</sup>  
 Demodex folliculorum  
 Enterobacter aerogenes, cloacae  
**Enterococcus faecalis, faecium**  
 Enterovirus (pan)  
 Epstein-Barr virus<sup>5</sup>  
 Escherichia coli  
**Fusarium oxysporum, solani**  
**Fusobacterium nucleatum, necrophorum**  
 Haemophilus influenzae  
 Herpes simplex virus 1, 2<sup>6</sup>  
 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.<sup>1</sup>

#### Antibiotic Resistance Genes Below

**Streptococcus agalactiae**<sup>2</sup>  
**Streptococcus anginosus, constellatus, intermedius**<sup>7</sup>  
**Streptococcus mitis, sanguis, mutans**<sup>8</sup>  
**Streptococcus pneumoniae**  
**Streptococcus pyogenes**<sup>3</sup>  
**Toxoplasma gondii**  
 Varicella zoster virus<sup>9</sup>

**SAMPLE TYPE:** Eye (external), Eye (internal)

### 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  
 Cytomegalovirus<sup>4</sup>  
 Enterobacter aerogenes, cloacae  
**Enterococcus faecalis, faecium**  
 Enterovirus (pan)  
 Epstein-Barr virus<sup>5</sup>  
 Escherichia coli  
**Fusarium oxysporum, solani**  
**Fusobacterium nucleatum, necrophorum**  
 Haemophilus influenzae  
 Herpes simplex virus 1, 2<sup>6</sup>  
 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  
 Staphylococcus spp.<sup>1</sup>  
**Streptococcus agalactiae**<sup>2</sup>

#### Antibiotic Resistance Genes Below

**Streptococcus anginosus, constellatus, intermedius**<sup>7</sup>  
**Streptococcus mitis, sanguis, mutans**<sup>8</sup>  
**Streptococcus pneumoniae**  
**Streptococcus pyogenes**<sup>3</sup>  
 Varicella zoster virus<sup>9</sup>

**SAMPLE TYPE:** Nasopharyngeal/Nares, Oropharyngeal, Ear

#### Antibiotic Resistance Genes

VanA, VanB<sup>10</sup>  
 ermB, C; mecA<sup>14</sup>  
 SHV, KPC Groups<sup>12</sup>

dff (A1, A5), sul (1, 2)<sup>13</sup>  
 mecA<sup>14</sup>  
 qnrA1, qnrA2, qnrB2<sup>15</sup>

tet B, tet M<sup>16</sup>  
 IMP, NDM, VIM Groups<sup>17</sup>  
 ACT, MIR, FOX, ACC Groups<sup>18</sup>

OXA-48,-51<sup>19</sup>  
 CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups<sup>2</sup>



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

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

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

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



All Menus

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## WOUND



### Bacterial/Viral

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

Herpes simplex virus 1,<sup>21</sup>  
*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.<sup>2</sup>  
*Stenotrophomonas maltophilia*  
*Streptococcus agalactiae*<sup>3</sup>  
*Streptococcus pneumoniae*  
*Streptococcus pyogenes*<sup>4</sup>  
 Varicella zoster virus<sup>5</sup>  
*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  
*mentagraphophytes/ interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum*  
*Trichosporon mucoides, asahii*

**Add-on Only**  
*Candida auris*  
 Human Monkeypox virus

**SAMPLE TYPE:** Wound Swab

## 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.<sup>1</sup>  
*Streptococcus agalactiae*<sup>3</sup>  
*Streptococcus pyogenes*<sup>4</sup>  
**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*

### Antibiotic Resistance Genes Below

Trichophyton  
*mentagraphophytes/ interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum*  
*Trichosporon mucoides, asahii*

**Add-on Only**  
*Candida auris*

**SAMPLE TYPE:** Nail, 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*

Trichophyton  
*mentagraphophytes/ interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum*  
*Trichosporon mucoides, asahii*

### Antibiotic Resistance Genes Below: minus mecA; VanA, VanB

**Add-on Only**  
*Candida auris*

**SAMPLE TYPE:** Nail

## MRSA



*Staphylococcus aureus*

**SAMPLE TYPE:** Nasopharyngeal/Nares

### Antibiotic Resistance Gene: mecA Only

### Antibiotic Resistance Genes

VanA, VanB<sup>6</sup>  
 ermB, C; mecA<sup>7</sup>  
 SHV, KPC Groups<sup>8</sup>

dfr (A1, A5), sul (1, 2)<sup>9</sup>  
 mecA<sup>10</sup>  
 qnrA1, qnrA2, qnrB2<sup>11</sup>

tet B, tet M<sup>12</sup>  
 IMP, NDM, VIM Groups<sup>13</sup>  
 ACT, MIR, FOX, ACC Groups<sup>14</sup>

OXA-48,-51<sup>15</sup>  
 CTX-M1 (15), M2 (2), M9 (9), M8/25  
 Groups<sup>8</sup>

<sup>1</sup>HSV-1, HSV-2  
<sup>2</sup>Coagulase negative species: *S. epidermidis, S. haemolyticus, S. lugdunensis, S. saprophyticus*

<sup>3</sup>Group B Strep (GBS)  
<sup>4</sup>Group A Strep  
<sup>5</sup>Human Herpesvirus 3, VZV  
<sup>6</sup>Vancomycin  
<sup>7</sup>Macrolide, Lincosamide,

Streptogramin  
<sup>8</sup>Class A beta-lactamase  
<sup>9</sup>Trimethoprim/Sulfamethoxazole  
<sup>10</sup>Methicillin  
<sup>11</sup>Fluoroquinolone

<sup>12</sup>Tetracycline  
<sup>13</sup>Class B metallo-beta-lactamase  
<sup>14</sup>AmpC beta-lactamase  
<sup>15</sup>Class D oxacillinase

