

# Infectious Disease Syndromatic Menus

## 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<sup>1</sup>**  
**Streptococcus pneumoniae**

### Antibiotic Resistance Genes Below

**Streptococcus pyogenes<sup>2</sup>**

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

**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 virus<sup>3</sup>  
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<sup>1</sup>**  
**Streptococcus anginosus, constellatus, intermedius<sup>4</sup>**  
**Streptococcus mitis, sanguis, mutans<sup>5</sup>**  
**Streptococcus pneumoniae**

**Streptococcus pyogenes<sup>2</sup>**

**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, 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-4B, -51<sup>15</sup>  
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups<sup>16</sup>



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All Menus

<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

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- ◆ 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, glabrata, parapsilosis, tropicalis**  
Chlamydia trachomatis  
Citrobacter freundii  
Enterobacter aerogenes, cloacae

Enterococcus faecalis, faecium  
Escherichia coli  
Gardnerella vaginalis  
**Haemophilus ducreyi**  
Herpes simplex virus 1, 2<sup>1</sup>  
Klebsiella (Calymmatobacterium) granulomatis  
Klebsiella pneumoniae, oxytoca  
Megasphaera (Types 1, 2)  
Morganella morganii  
**Mycoplasma genitalium, hominis**

Neisseria gonorrhoeae  
Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii  
Proteus mirabilis, vulgaris  
Serratia marcescens  
Staphylococcus aureus  
Staphylococcus spp.<sup>2</sup>  
**Streptococcus agalactiae<sup>3</sup>**  
**Streptococcus pyogenes<sup>4</sup>**  
**Treponema pallidum<sup>5</sup>**

#### Antibiotic Resistance Genes Below

Trichomonas vaginalis  
Ureaplasma urealyticum, parvum

#### Add-on Only

**Candida auris**  
High Risk HPV Types 5, 16, 18, 26, 31, 33, 35, 39, 45, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82

**SAMPLE TYPE:** Urine Swab, Prostatic Fluid, Penile Swab, Anorectal Swab, Vaginal Swab, Pelvic Abscess Material, Endometrial Sampling, Cervical Brushing, Genital Region Ulcer Swab, Endocervical Brushing, Urethral Swab

### SEXUALLY TRANSMITTED INFECTION



Atopobium vaginae  
Chlamydia trachomatis  
Gardnerella vagin alis

Herpes simplex virus 1, 2<sup>1</sup>  
**Mycoplasma genitalium, hominis**  
**Neisseria gonorrhoeae**

Trichomonas vaginalis  
Ureaplasma urealyticum, parvum

#### Antibiotic Resistance Genes Below

**Add-on Only**  
High Risk HPV Types 5, 16, 18, 26, 31, 33, 35, 39, 45, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82

**SAMPLE TYPE:** Urine Swab, Vaginal Swab, Genital Region Ulcer Swab, Prostatic Fluid, Pelvic Abscess Material, Endocervical Brushing, Penile Swab, Endometrial Sampling, Urethral Swab, Anorectal Swab, Cervical Brushing

### VAGINITIS



Atopobium vaginae  
Bacteroides fragilis  
BVAB 2, 3 (bacterial vaginosis associated bacteria 2, 3); Mobiluncus spp.  
Enterococcus faecalis, faecium

Escherichia coli  
**Mycoplasma genitalium, hominis**  
Staphylococcus aureus  
**Streptococcus agalactiae<sup>3</sup>**  
Trichomonas vaginalis

Ureaplasma urealyticum, parvum

#### Add-on Only

**Candida albicans, glabrata, parapsilosis, tropicalis**

#### Antibiotic Resistance Genes Below

**Candida auris**  
High Risk HPV Types 5, 16, 18, 26, 31, 33, 35, 39, 45, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82

**SAMPLE TYPE:** Vaginal Swab

### STI-VAGINITIS



Atopobium vaginae  
Bacteroides fragilis  
BVAB 2, 3 (bacterial vaginosis associated bacteria 2, 3); Mobiluncus spp.  
Chlamydia trachomatis

Enterococcus faecalis, faecium  
Escherichia coli  
Gardnerella vaginalis  
Herpes simplex virus 1, 2<sup>1</sup>  
**Mycoplasma genitalium, hominis**

Neisseria gonorrhoeae  
Staphylococcus aureus  
**Streptococcus agalactiae<sup>3</sup>**  
Trichomonas vaginalis  
Ureaplasma urealyticum, parvum

#### Antibiotic Resistance Genes Below

**Add-on Only**  
**Candida albicans, glabrata, parapsilosis, tropicalis**  
**Candida auris**  
High Risk HPV Types 5, 16, 18, 26, 31, 33, 35, 39, 45, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82

**SAMPLE TYPE:** Urine Swab, Anorectal Swab, Vaginal Swab, Pelvic Abscess Material, Endometrial Sampling, Cervical Brushing, Genital Region Ulcer Swab, Endocervical Brushing, Urethral Swab

### CHLAMYDIA, GONORRHEA & TRICHOMONAS



Chlamydia trachomatis

Neisseria gonorrhoeae

Trichomonas vaginalis

#### Does Not Include Antibiotic Resistance Genes

**SAMPLE TYPE:** Urine Swab, Vaginal Swab, Genital Region Ulcer Swab, Prostatic Fluid, Pelvic Abscess Material, Endocervical Brushing, Penile Swab, Endometrial Sampling, Urethral Swab, Anorectal Swab, Cervical Brushing

### GENITAL ULCER



Chlamydia trachomatis  
Haemophilus ducreyi

Herpes simplex virus 1, 2<sup>1</sup>  
Klebsiella (Calymmatobacterium)

granulomatis  
Treponema pallidum<sup>5</sup>

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

**SAMPLE TYPE:** Genital Region Ulcer Swab

### HERPES SIMPLEX VIRUS TYPING



Herpes simplex virus 1                      Herpes simplex virus 2

#### Does Not Include Antibiotic Resistance Genes

**SAMPLE TYPE:** Penile Swab, Anorectal Swab, Vaginal Swab, Genital Region Ulcer Swab

### GROUP B STREP



Streptococcus agalactiae<sup>3</sup>

#### Does Not Include Antibiotic Resistance Genes

**SAMPLE TYPE:** Vaginal Swab, Anorectal Swab

#### Antibiotic Resistance Genes

VanA, VanB<sup>8</sup>  
ermB, C; mefA<sup>7</sup>  
SHV, KPC Groups<sup>9</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-48-5<sup>15</sup>  
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups<sup>8</sup>



All Menus



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<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>Syphilis  
<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

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- ◆ 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.<sup>1</sup>  
**Streptococcus agalactiae<sup>2</sup>**  
**Streptococcus pyogenes<sup>3</sup>**  
**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.<sup>1</sup>  
**Streptococcus agalactiae<sup>2</sup>**

**SAMPLE TYPE:** Urine Swab, Catheter Swab

### 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 (pan)  
 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**  
 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 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**  
 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  
**Streptococcus agalactiae<sup>2</sup>**  
**Streptococcus anginosus, constellatus, intermedius<sup>7</sup>**

#### Antibiotic Resistance Genes Below

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

**SAMPLE TYPE:** Rectal Swab, Stool Swab

#### Antibiotic Resistance Genes

VanA, VanB<sup>10</sup>  
 ermB, C, mefA<sup>11</sup>  
 SHV, KPC Groups<sup>12</sup>

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

<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



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## 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, 2<sup>1</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 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.<sup>2</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*  
*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, VanB<sup>9</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>16</sup>



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All Menus

<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