# MEDICAL LABORATORY EVALUATION

## PARTICIPANT SUMMARY

# 2 • 0 • 1 •8

Microbiology
2018 MLE-M2

ACP | Medical Laboratory Evaluation

Total Commitment to Education and Service
Provided by ACP, Inc.

# Table of Contents



---

## Evaluation Criteria

The evaluation criteria used in the MLE Program is in accordance with the Clinical Laboratory Improvement Amendments of 1988 (CLIA '88) federal requirements for proficiency testing. The criteria are included below.

### Qualitative

For qualitative procedures, evaluation is based on participant or referee consensus. If participant consensus is not reached, CMS requirements call for grading by referee consensus. A minimum percentage of participants or referee laboratories must receive a passing score or the challenge is not evaluated due to lack of consensus. These percentages are listed below.

| | | | |
|---|---|---|---|
| Affirm VP III Candida Antigen Detection | 80% Consensus | Gram Stain Morphology | 80% Consensus |
| Affirm VP III Gardnerella Ag Detection | 80% Consensus | Influenza A Antigen Detection | 80% Consensus |
| Affirm VP III Trichomonas Ag Detection | 80% Consensus | Influenza A/B Antigen Detection | 80% Consensus |
| Antimicrobial Susceptibility Testing | 80% Consensus | Influenza B Antigen Detection | 80% Consensus |
| Bacterial Identification (Cultures) | 80% Consensus | Legionella Antigen Detection | 80% Consensus |
| Bacterial Vaginosis (OSOM) | 80% Consensus | MRSA Screening | 80% Consensus |
| Chlamydia (EIA, DNA) | 80% Consensus | Parasite Identification | 80% Consensus |
| Clostridium difficile Antigen Detection | 80% Consensus | Rotavirus Antigen Detection | 80% Consensus |
| Colony Count | 80% Consensus | RSV Antigen Detection | 80% Consensus |
| Cryptosporidium Antigen Detection | 80% Consensus | Strep A Antigen Detection | 80% Consensus |
| Dermatophyte Culture | 80% Consensus | Streptococcus pneumoniae Antigen Detection | 80% Consensus |
| GC (EIA, DNA) | 80% Consensus | Trichomonas vaginalis (OSOM) | 80% Consensus |
| Giardia lamblia Antigen Detection | 80% Consensus | Urine Presumptive Identification | 80% Consensus |
| Gram Stain | 80% Consensus | | |

**METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS SCREENING**

**Specimen MSA-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 5 | 100% | Acceptable |

Organism(s) present: *Staphylococcus aureus* – Methicillin resistant and *Corynebacterium sp.*

**Specimen MSA-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 5 | 100% | Acceptable |

Organism(s) present: *Staphylococcus aureus* - Methicillin resistant and *Staphylococcus epidermidis.*

**Specimen MSA-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 5 | 100% | Acceptable |

Organism(s) present: *Staphylococcus aureus* – Methicillin sensitive.

**Specimen MSA-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 5 | 100% | Acceptable |

Organism(s) present: *Streptococcus pyogenes* and *Streptococcus mitis.*

**Specimen MSA-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 5 | 100% | Acceptable |

Organism(s) present: *Staphylococcus aureus* – Methicillin resistant and *Staphylococcus epidermidis.*

## STREP A ANTIGEN DETECTION

### Specimen RS-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 490 | 483 | 7 |
| Abbott Signify Strep A-waived | 1 | 1 | - |
| Alere Acceava Strep A Test | 11 | 11 | - |
| Alere i Instrument - waived | 15 | 15 | - |
| BD Chek Strep A | 1 | 1 | - |
| BD Veritor - waived | 11 | 11 | - |
| Beckman Coulter ICON DS | 7 | 7 | - |
| Beckman Coulter ICON SC | 1 | 1 | - |
| Binax NOW Strep A | 1 | 1 | - |
| Cardinal Health Strep A - waived | 6 | 6 | - |
| Clarity Diagnostics | 1 | 1 | - |
| Consult Diagnostic Strep A Dipstick - Waived | 76 | 75 | 1 |
| Germaine Laboratories StrepAim | 1 | 1 | - |
| Henry Schein One Step+ - waived | 46 | 43 | 3 |
| Immunostics Detector Strep A Direct | 1 | 1 | - |
| McKesson Strep A Dipstick | 17 | 17 | - |
| Medline Strep A Test Strip | 2 | 2 | - |
| Meridian Illumigene | 1 | 1 | - |
| NDC Pro Advantage | 2 | 2 | - |
| Other Waived Method | 10 | 10 | - |
| Quidel QuickVue Dipstick Strep | 57 | 57 | - |
| Quidel QuickVue In-Line | 48 | 46 | 2 |
| Quidel QuickVue+ | 10 | 10 | - |
| Quidel Sofia - waived | 2 | 2 | - |
| Quidel Sofia Strep A - moderate | 2 | 2 | - |
| Quidel Sofia Strep A+ - waived | 12 | 12 | - |
| Quidel Solana | 2 | 2 | - |
| Roche cobas Liat | 2 | 2 | - |
| Sekisui OSOM | 100 | 99 | 1 |
| Sekisui OSOM Ultra -waived | 42 | 42 | - |

## STREP A ANTIGEN DETECTION

### Specimen RS-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 487 | 3 | 484 |
| Abbott Signify Strep A-waived | 1 | - | 1 |
| Alere Acceava Strep A Test | 11 | - | 11 |
| Alere i Instrument - waived | 15 | - | 15 |
| BD Chek Strep A | 1 | - | 1 |
| BD Veritor - waived | 10 | - | 10 |
| Beckman Coulter ICON DS | 7 | - | 7 |
| Beckman Coulter ICON SC | 1 | - | 1 |
| Binax NOW Strep A | 1 | - | 1 |
| Cardinal Health Strep A - waived | 6 | - | 6 |
| Clarity Diagnostics | 1 | - | 1 |
| Consult Diagnostic Strep A Dipstick - Waived | 76 | 1 | 75 |
| Germaine Laboratories StrepAim | 1 | - | 1 |
| Henry Schein One Step+ - waived | 46 | - | 46 |
| Immunostics Detector Strep A Direct | 1 | - | 1 |
| McKesson Strep A Dipstick | 16 | - | 16 |
| Medline Strep A Test Strip | 2 | - | 2 |
| Meridian Illumigene | 1 | - | 1 |
| NDC Pro Advantage | 2 | - | 2 |
| Other Waived Method | 10 | - | 10 |
| Quidel QuickVue Dipstick Strep | 56 | - | 56 |
| Quidel QuickVue In-Line | 48 | 1 | 47 |
| Quidel QuickVue+ | 10 | - | 10 |
| Quidel Sofia - waived | 2 | - | 2 |
| Quidel Sofia Strep A - moderate | 2 | - | 2 |
| Quidel Sofia Strep A+ - waived | 12 | - | 12 |
| Quidel Solana | 2 | - | 2 |
| Roche cobas Liat | 2 | - | 2 |
| Sekisui OSOM | 100 | 1 | 99 |
| Sekisui OSOM Ultra -waived | 42 | - | 42 |

## STREP A ANTIGEN DETECTION

### Specimen RS-8

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 68 | 67 | 1 |
| Alere Acceava Strep A Test | 3 | 3 | - |
| Alere i Instrument - waived | 1 | 1 | - |
| BD Veritor - waived | 1 | 1 | - |
| Beckman Coulter ICON DS | 2 | 2 | - |
| Binax NOW Strep A | 1 | 1 | - |
| Consult Diagnostic Strep A Dipstick - Waived | 11 | 11 | - |
| Henry Schein One Step+ - waived | 3 | 3 | - |
| McKesson Strep A Dipstick | 3 | 3 | - |
| Meridian Illumigene | 1 | 1 | - |
| Other Waived Method | 1 | 1 | - |
| Quidel QuickVue Dipstick Strep | 8 | 8 | - |
| Quidel QuickVue In-Line | 15 | 14 | 1 |
| Quidel QuickVue+ | 4 | 4 | - |
| Quidel Sofia Strep A - moderate | 2 | 2 | - |
| Quidel Sofia Strep A+ - waived | 3 | 3 | - |
| Quidel Solana | 2 | 2 | - |
| Sekisui OSOM | 1 | 1 | - |
| Sekisui OSOM Ultra -waived | 6 | 6 | - |

## STREP A ANTIGEN DETECTION

### Specimen RS-9

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 67 | 67 | - |
| Alere Acceava Strep A Test | 3 | 3 | - |
| Alere i Instrument - waived | 1 | 1 | - |
| BD Veritor - waived | 1 | 1 | - |
| Beckman Coulter ICON DS | 2 | 2 | - |
| Binax NOW Strep A | 1 | 1 | - |
| Consult Diagnostic Strep A Dipstick - Waived | 11 | 11 | - |
| Henry Schein One Step+ - waived | 3 | 3 | - |
| McKesson Strep A Dipstick | 3 | 3 | - |
| Meridian Illumigene | 1 | 1 | - |
| Other Waived Method | 1 | 1 | - |
| Quidel QuickVue Dipstick Strep | 8 | 8 | - |
| Quidel QuickVue In-Line | 15 | 15 | - |
| Quidel QuickVue+ | 4 | 4 | - |
| Quidel Sofia Strep A - moderate | 2 | 2 | - |
| Quidel Sofia Strep A+ - waived | 3 | 3 | - |
| Quidel Solana | 2 | 2 | - |
| Sekisui OSOM | 1 | 1 | - |
| Sekisui OSOM Ultra -waived | 5 | 5 | - |

### Specimen RS-10

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 67 | - | 67 |
| Alere Acceava Strep A Test | 3 | - | 3 |
| Alere i Instrument - waived | 1 | - | 1 |
| BD Veritor - waived | 1 | - | 1 |
| Beckman Coulter ICON DS | 2 | - | 2 |
| Binax NOW Strep A | 1 | - | 1 |
| Consult Diagnostic Strep A Dipstick - Waived | 11 | - | 11 |
| Henry Schein One Step+ - waived | 3 | - | 3 |
| McKesson Strep A Dipstick | 3 | - | 3 |
| Meridian Illumigene | 1 | - | 1 |
| Other Waived Method | 1 | - | 1 |
| Quidel QuickVue Dipstick Strep | 8 | - | 8 |
| Quidel QuickVue In-Line | 15 | - | 15 |
| Quidel QuickVue+ | 4 | - | 4 |
| Quidel Sofia Strep A - moderate | 2 | - | 2 |
| Quidel Sofia Strep A+ - waived | 3 | - | 3 |
| Quidel Solana | 2 | - | 2 |
| Sekisui OSOM | 1 | - | 1 |
| Sekisui OSOM Ultra -waived | 5 | - | 5 |

## MISCELLANEOUS CULTURES

### Specimen BA-4 – Blood Culture

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Staphylococcus haemolyticus | 2 | 40.00% | Acceptable |
| Staph – coagulase negative | 3 | 60.00% | Acceptable |

Organism(s) present: *Staphylococcus haemolyticus.*

### Specimen BA-5 – Stool Culture

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Shigella flexneri | 2 | 40.00% | Acceptable |
| Shigella sp. | 2 | 40.00% | Acceptable |
| Escherichia coli | 1 | 20.00% | Acceptable |

Organism(s) present: *Shigella flexneri* and *Escherichia coli.*

### Specimen BA-6 – Wound Culture

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Eikenella corrodens | 3 | 60.00% | Acceptable |
| Streptococcus alpha-hemolytic | 1 | 20.00% | Acceptable |
| Streptococcus salivarius | 1 | 20.00% | Acceptable |

Organism(s) present: *Eikenella corrodens* and *Streptococcus salivarius.*

**THROAT CULTURE**

**Specimen TC-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive for Group A Strep | 59 | 58.42% | Acceptable |
| Presump. Pos. Group A Strep | 37 | 36.63% | Acceptable |
| Streptococcus pyogenes | 2 | 1.98% | Acceptable |
| Growth, referred for identification | 1 | 0.99% | Acceptable |

Organism(s) present: *Streptococcus pyogenes* and *Streptococcus mitis*.

**Specimen TC-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative for Group A Strep | 94 | 95.92% | Acceptable |
| Neisseria sp. | 1 | 1.02% | Acceptable |

Organism(s) present: *Neisseria subflava.*

**Specimen TC-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative for Group A Strep | 61 | 96.83% | Acceptable |

Organism(s) present: *Haemophilus influenzae* and *Corynebacterium* sp.

**Specimen TC-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative for Group A Strep | 44 | 74.58% | Acceptable |
| Positive for Group A Strep | 11 | 18.64% | |

Organism(s) present: *Moraxella catarrhalis* and *Streptococcus salivarius*. The specimen TC-9 was graded by 93% referee consensus.

**Specimen TC-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive for Group A Strep | 29 | 49.15% | Acceptable |
| Presump. Pos. Group A Strep | 28 | 47.46% | Acceptable |
| Growth, referred for identification | 1 | 1.69% | Acceptable |

Organism(s) present: *Streptococcus pyogenes.*

**URINE CULTURE**

**Specimen UC-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Klebsiella pneumoniae | 24 | 44.44% | Acceptable |
| Klebsiella sp. | 15 | 27.78% | Acceptable |
| Growth, referred for identification | 6 | 11.11% | Acceptable |
| Presump. Gram negative | 3 | 5.56% | Acceptable |
| Gram negative bacilli | 3 | 5.56% | Acceptable |
| Presump. Klebsiella sp. | 2 | 3.70% | Acceptable |
| ***Gram Stain*** | | | |
| Gram negative | 24 | 100% | Acceptable |
| ***Gram Stain Morphology*** | | | |
| Rods/bacilli | 23 | 100% | Acceptable |

Organism(s) present: *Klebsiella pneumoniae.*

**Specimen UC-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Aerococcus sp. | 13 | 25.00% | Acceptable |
| Growth, referred for identification | 9 | 17.31% | Acceptable |
| Aerococcus urinae | 7 | 13.46% | Acceptable |
| Presump. Gram positive | 3 | 5.77% | Acceptable |
| Gram positive cocci | 3 | 5.77% | Acceptable |
| Streptococcus alpha-hemolytic | 13 | 25.00% | |

Organism(s) present: *Aerococcus urinae* and *Lactobacillus* sp. The specimen UC-7 was graded by 86% referee consensus.

*Aerococcus species: A. urinae* and *A. viridans*
Aerococcus species are slow growing facultative anaerobes. They are as gram positive cocci in clusters or tetrads. They were first identified in samples of air and hence the name Aerococcus. Recently the importance of this group as a pathogen (Aerococcus *urinae* and *A. viridans* causing UTI *and* endocarditis) is on the rise. More concerning is the fact that these organisms do not readily respond to the conventional antibiotic regiment treatment for UTI. For example, it has been shown that *A. urinae* is resistant to Trimethoprim and Ciprofloxacin which is commonly used to treat UTI. Antibiotic susceptibilities are being established as more infections are being identified. It is therefore important to correctly identify and isolate these organisms in culture.
*Aerococcus* is often misidentified as *Streptococcus viridans* or *Staphylococcus sp*., as they have common characteristics from each group. They are mainly catalase negative with alpha hemolysis on blood agar like *Streptococcus viridans* group. On gram stain they appear as clusters or tetrads of gram positive cocci like *Staphylococcus sp.*
In general growth on blood agar is sparse with colonies being small, alpha hemolytic, gray-white color and beaded. Optimum conditions for growth are: Temperature 30°C, pH 9.6, Bile up to 40%, Salt 6.5%. Incubation time is generally 18 -24 hours; after 24 hours colonies appear slightly smaller than enterococci but larger than alpha hemolytic streptococci (viridans group).

**URINE CULTURE**

**Specimen UC-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Streptococcus agalactiae | 16 | 48.48% | Acceptable |
| Growth, referred for identification | 8 | 24.24% | Acceptable |
| Gram positive cocci | 4 | 12.12% | Acceptable |
| Presump. Gram positive | 3 | 9.09% | Acceptable |
| Strep – beta hemo, not Grp A | 1 | 3.03% | Acceptable |

Organism(s) present: *Streptococcus agalactiae*.

**Specimen UC-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Providencia rettgeri | 6 | 40.00% | Acceptable |
| Presump. Gram Negative | 3 | 20.00% | Acceptable |
| Corynebacterium sp. | 1 | 6.67% | Acceptable |
| Providencia sp. | 1 | 6.67% | Acceptable |
| Gram negative bacilli | 1 | 6.67% | Acceptable |
| Growth, referred for identification | 1 | 6.67% | Acceptable |

Organism(s) present: *Providencia rettgeri* and *Corynebacterium* sp.

**Specimen UC-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Escherichia coli | 9 | 64.29% | Acceptable |
| Presump. Escherichia coli | 2 | 14.29% | Acceptable |
| Gram negative bacilli | 1 | 7.14% | Acceptable |
| Growth, referred for identification | 1 | 7.14% | Acceptable |
| Presump. Gram negative | 1 | 7.14% | Acceptable |

Organism(s) present: *Escherichia coli* and *Lactobacillus* sp.

**ANTIMICROBIAL SUSCEPTIBILIY TESTING**

**Specimen UC-6, CC-6 (SUS-6)** Organism(s) present: *Klebsiella pneumoniae.*

| | ------Disk Diffusion------ Interpretative category data | | | | ------MIC------ Interpretative category data | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ***Antimicrobial*** | ***Labs*** | ***S*** | ***I*** | ***R*** | ***Labs*** | ***S*** | ***I*** | ***R*** | ***Acceptable (%)*** |
| Amikacin | - | - | - | - | 2 | 2 | - | - | 100.00% |
| Amoxicillin/Clavulanate | 17 | 17 | - | - | 2 | 2 | - | - | 100.00% |
| Ampicillin | 37 | - | - | 37 | 5 | - | - | 5 | 100.00% |
| Ampicillin/Sulbactam | - | - | - | - | 4 | 4 | - | - | 100.00% |
| Aztreonam | - | - | - | - | 1 | 1 | - | - | Ungraded[1] |
| Cefaclor | 1 | 1 | - | - | - | - | - | - | Ungraded[1] |
| Cefamandole | 1 | 1 | - | - | - | - | - | - | Ungraded[1] |
| Cefazolin | 32 | 32 | - | - | 5 | 5 | - | - | 100.00% |
| Cefdinir | 1 | 1 | - | - | - | - | - | - | Ungraded[1] |
| Cefepime | - | - | - | - | 4 | 4 | - | - | 100.00% |
| Cefixime | 4 | 4 | - | - | - | - | - | - | 100.00% |
| Cefotaxime | - | - | - | - | 1 | 1 | - | - | Ungraded[1] |
| Cefoxitin | 1 | 1 | - | - | 2 | 2 | - | - | 100.00% |
| Cefpodoxime | 3 | 3 | - | - | - | - | - | - | 100.00% |
| Ceftazidime | 1 | 1 | - | - | 4 | 4 | - | - | 100.00% |
| Ceftriaxone | 8 | 8 | - | - | 4 | 4 | - | - | 100.00% |
| Cefuroxime | 14 | 14 | - | - | 1 | 1 | - | - | 100.00% |
| Cephalothin | 5 | 5 | - | - | 1 | 1 | - | - | Inappropriate drug[2] |
| Ciprofloxacin | 43 | 43 | - | - | 4 | 4 | - | - | 100.00% |
| Ertapenem | - | - | - | - | 3 | 3 | - | - | 100.00% |
| Fosfomycin | 2 | 2 | - | - | - | - | - | - | Inappropriate drug[2] |
| Gentamicin | 35 | 35 | - | - | 5 | 5 | - | - | 100.00% |
| Imipenem | - | - | - | - | 3 | 3 | - | - | 100.00% |
| Levofloxacin | 8 | 8 | - | - | 4 | 4 | - | - | 100.00% |
| Meropenem | - | - | - | - | 1 | 1 | - | - | Ungraded[1] |
| Nalidixic Acid | 1 | 1 | - | - | - | - | - | - | Ungraded[1] |
| Nitrofurantoin | 35 | 24 | 11 | - | 5 | 5 | - | - | 100.00% |
| Piperacillin/Tazobactam | 1 | 1 | - | - | 4 | 4 | - | - | 100.00% |
| Sulfisoxazole | 2 | 2 | - | - | - | - | - | - | 100.00% |
| Tetracycline | 21 | 21 | - | - | 1 | 1 | - | - | 100.00% |
| Ticarcillin/Clavulanate | - | - | - | - | 1 | 1 | - | - | Ungraded[1] |
| Tobramycin | 3 | 3 | - | - | 4 | 4 | - | - | 100.00% |
| Trimethoprim | 3 | 3 | - | - | - | - | - | - | 100.00% |
| Trimethoprim/Sulfamethoxazole | 40 | 39 | - | 1 | 4 | 4 | - | - | 97.83% |

NOTE: Please be aware that CLSI issues annual editions of M100, the standards used by all proficiency testing programs for grading of susceptibilities. Drugs considered appropriate may change significantly with subsequent editions. The current edition of the CLSI M100 document is accessible online at CLSI.org under Standards>Free Resources.

[1] This is an ungraded challenge due to lack of comparison group.
[2] This is an inappropriate drug due to discontinued marketing status.

## GENITAL CULTURE

### Specimen GC-6

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Presumptive for N. gonorrhoeae | 21 | 45.65% | Acceptable |
| Enterococcus sp. | 15 | 32.61% | Acceptable |
| Streptococcus alpha-hemolytic | 4 | 8.70% | Acceptable |
| Enterococcus faecalis | 2 | 4.35% | Acceptable |
| Gram positive cocci | 1 | 2.17% | Acceptable |

***Gram Stain***

| | | | |
|---|---|---|---|
| Gram positive | 12 | 85.71% | Acceptable |
| Gram negative | 2 | 14.29% | |

***Gram Stain Morphology***

| | | | |
|---|---|---|---|
| Cocci | 12 | 80.00% | Acceptable |
| Diplococci | 2 | 13.33% | |
| Rods/bacilli | 1 | 6.67% | |

Organism(s) present: *Enterococcus faecalis* and *Streptococcus salivarius*.

### Specimen GC-7

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Presumptive for N. gonorrhoeae | 9 | 69.23% | Acceptable |
| Neisseria gonorrhoeae | 3 | 23.08% | Acceptable |
| Gram negative diplococci | 1 | 7.69% | Acceptable |

Organism(s) present: *Neisseria gonrorrhoeae and Lactobacillus* sp.

### Specimen GC-8

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative for N. gonorrhoeae | 10 | 66.67% | Acceptable |
| Proteus mirabilis | 2 | 13.33% | Acceptable |
| Staph – coagulase negative | 2 | 13.33% | Acceptable |

Organism(s) present: *Proteus mirabilis* and *Staphylococcus epidermidis.*

## GENITAL CULTURE

### Specimen GC-9

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative for N. gonorrhoeae | 10 | 90.91% | Acceptable |

Organism(s) present: *Staphylococcus aureus and Staphylococcus saprophyticus.*

### Specimen GC-10

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Presumptive for N. gonorrhoeae | 9 | 81.82% | Acceptable |
| Gram negative diplococcic | 1 | 9.09% | Acceptable |
| Neisseria gonorrhoeae | 1 | 9.09% | Acceptable |

Organism(s) present: *Neisseria gonorrhoeae.*

## COLONY COUNT/PRESUMPTIVE IDENTIFICATION

**Specimen CC-6**

| *Method* | *Labs* | *No growth* | *<10,000 organisms/mL* | *10,000-100,000 organisms/mL* | *>100,000 organisms/mL* |
|---|---|---|---|---|---|
| ALL METHODS | 51 | 1 | 1 | 16 | 33 |
| Calibrated Loop | 22 | 1 | 1 | 10 | 10 |
| Uri-Check | 7 | - | - | 1 | 6 |
| Uricult | 21 | - | - | 4 | 17 |

**Identification–Specimen CC-6**

| *Identification* | *Labs* | *Percent* | *Performance* |
|---|---|---|---|
| Growth, referred for identification | 7 | 53.85% | Acceptable |
| Presump. Gram negative | 4 | 30.77% | Acceptable |
| Klebsiella sp. | 1 | 7.69% | Acceptable |
| Klebsiella pneumoniae | 1 | 7.69% | Acceptable |

Organism(s) present: 10,000-100,000 CFU/mL of *Klebsiella pneumoniae.*

**Specimen CC-7**

| *Method* | *Labs* | *No growth* | *<10,000 organisms/mL* | *10,000-100,000 organisms/mL* | *>100,000 organisms/mL* |
|---|---|---|---|---|---|
| ALL METHODS | 51 | 25 | 5 | 4 | 17 |
| Calibrated Loop | 22 | 1 | 2 | 2 | 17 |
| Uri-Check | 7 | 6 | 1 | - | - |
| Uricult | 21 | 17 | 2 | 2 | - |

**Identification–Specimen CC-7**

| *Identification* | *Labs* | *Percent* | *Performance* |
|---|---|---|---|
| Growth, referred for identification | 6 | 46.15% | Acceptable |
| No growth (sterile) | 6 | 46.15% | |

Organism(s) present: >100,000 CFU/mL of *Aerococcus urinae* and <10,000 CFU/mL of *Lactobacillus* sp. The presumptive identification was graded by 80% referee consensus. The colony count was graded by 82% referee consensus.

*Aerococcus species: A. urinae* and *A. viridans*
Aerococcus species are slow growing facultative anaerobes. They are as gram positive cocci in clusters or tetrads. They were first identified in samples of air and hence the name Aerococcus. Recently the importance of this group as a pathogen (Aerococcus *urinae* and *A. viridans* causing UTI *and* endocarditis) is on the rise. More concerning is the fact that these organisms do not readily respond to the conventional antibiotic regiment treatment for UTI. For example, it has been shown that *A. urinae* is resistant to Trimethoprim and Ciprofloxacin which is commonly used to treat UTI. Antibiotic susceptibilities are being established as more infections are being identified. It is therefore important to correctly identify and isolate these organisms in culture.
*Aerococcus* is often misidentified as *Streptococcus viridans* or *Staphylococcus sp*., as they have common characteristics from each group. They are mainly catalase negative with alpha hemolysis on blood agar like *Streptococcus viridans* group. On gram stain they appear as clusters or tetrads of gram positive cocci like *Staphylococcus sp.*
In general growth on blood agar is sparse with colonies being small, alpha hemolytic, gray-white color and beaded. Optimum conditions for growth are: Temperature 30°C, pH 9.6, Bile up to 40%, Salt 6.5%. Incubation time is generally 18 -24 hours; after 24 hours colonies appear slightly smaller than enterococci but larger than alpha hemolytic streptococci (viridans group).

## COLONY COUNT/PRESUMPTIVE IDENTIFICATION

### Identification–Specimen CC-8

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Growth, referred for identification | 3 | 30.00% | Acceptable |
| Presump. Gram positive | 3 | 30.00% | Acceptable |
| Presump. Streptococcus sp. | 1 | 10.00% | Acceptable |
| No growth (sterile) | 1 | 10.00% | Acceptable |
| Streptococcus agalactiae | 1 | 10.00% | Acceptable |
| Gram positive cocci | 1 | 10.00% | Acceptable |

Organism(s) present: >100,000 CFU/mL of *Streptococcus agalactiae.*

### Identification–Specimen CC-9

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Growth, referred for identification | 4 | 40.00% | Acceptable |
| Presump. Gram negative | 4 | 40.00% | Acceptable |
| Providencia rettgeri | 1 | 10.00% | Acceptable |
| Gram negative bacilli | 1 | 10.00% | Acceptable |

Organism(s) present: >100,000 CFU/mL of *Providencia rettgeri* and <10,000 CFU/mL *Corynebacterium sp*.

### Identification–Specimen CC-10

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Growth, referred for identification | 4 | 40.00% | Acceptable |
| Presump. Gram negative | 3 | 30.00% | Acceptable |
| Escherichia coli | 2 | 20.00% | Acceptable |
| Presump. Escherichia coli | 1 | 10.00% | Acceptable |

Organism(s) present: >100,000 CFU/mL of *Escherichia coli* and <*10,000* CFU/mL of *Lactobacillus sp.*

**GRAM STAIN**

**Specimen GS-6**

| ***Reaction*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Gram negative | 18 | 100% | Acceptable |
| ***Gram Stain Morphology*** | | | |
| Rods/bacilli | 12 | 85.71% | Acceptable |
| Coccobacilli | 2 | 14.29% | |

Organism(s) present: *Klebsiella oxytoca.*

**Specimen GS-7**

| ***Reaction*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Gram negative | 17 | 94.44% | Acceptable |
| Gram positive | 1 | 5.56% | |
| ***Gram Stain Morphology*** | | | |
| Diplococci | 10 | 71.43% | Acceptable |
| Cocci | 4 | 28.57% | Acceptable |

Organism(s) present: *Neisseria gonorrhoeae.* .

**GRAM STAIN**

**Specimen GS-8**

| ***Reaction*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Gram positive | 17 | 94.44% | Acceptable |
| Gram negative | 1 | 5.56% | |
| ***Gram Stain Morphology*** | | | |
| Cocci | 14 | 100% | Acceptable |

Organism(s) present: *Staphylococcus saprophyticus.*

**Specimen GS-9**

| ***Reaction*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Gram positive | 16 | 88.89% | Acceptable |
| Gram negative | 2 | 11.11% | |
| ***Gram Stain Morphology*** | | | |
| Cocci | 9 | 64.29% | Acceptable |
| Diplococci | 3 | 21.43% | Acceptable |
| Coccobacilli | 1 | 7.14% | |
| Rods/bacilli | 1 | 7.14% | |

Organism(s) present: *Streptococcus pneumoniae.*

**Specimen GS-10**

| ***Reaction*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Gram negative | 18 | 100% | Acceptable |
| ***Gram Stain Morphology*** | | | |
| Rods/bacilli | 14 | 100% | Acceptable |

Organism(s) present: *Pseudomonas aeruginosa.*

**AFFIRM VP III–Trichomonas vaginalis**

**Specimen VP-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 26 | 100% | Acceptable |

Organism(s) present: *Gardnerella vaginalis* and *Trichomonas vaginalis*.

**Specimen VP-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 26 | 100% | Acceptable |

Organism(s) present: *Trichomonas vaginalis.*

**Specimen VP-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 96.15% | Acceptable |
| Positive | 1 | 3.85% | |

Organism(s) present: *Gardnerella vaginalis*.

**Specimen VP-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 96.15% | Acceptable |
| Positive | 1 | 3.85% | |

Organism(s) present: *Candida* species and *Gardnerella vaginalis*.

**Specimen VP-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 26 | 100% | Acceptable |

Organism(s) present: *Escherichia coli*.

**AFFIRM VP III–Gardnerella vaginalis**

**Specimen VP-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 25 | 100% | Acceptable |

Organism(s) present: *Gardnerella vaginalis* and *Trichomonas vaginalis*.

**Specimen VP-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 100% | Acceptable |

Organism(s) present: *Trichomonas vaginalis.*

**Specimen VP-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 25 | 100% | Acceptable |

Organism(s) present: *Gardnerella vaginalis*.

**Specimen VP-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 24 | 96.00% | Acceptable |
| Negative | 1 | 4.00% | |

Organism(s) present: *Candida* species and *Gardnerella vaginalis*.

**Specimen VP-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 100% | Acceptable |

Organism(s) present: *Escherichia coli*.

**AFFIRM VP III–Candida sp.**

**Specimen VP-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 24 | 96.00% | Acceptable |
| Positive | 1 | 4.00% | |

Organism(s) present: *Gardnerella vaginalis* and *Trichomonas vaginalis*.

**Specimen VP-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 100% | Acceptable |

Organism(s) present: *Trichomonas vaginalis*

**Specimen VP-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 22 | 88.00% | Acceptable |
| Positive | 3 | 12.00% | |

Organism(s) present: *Gardnerella vaginalis*.

**Specimen VP-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Positive | 25 | 100.00% | Acceptable |

Organism(s) present: *Candida* species and *Gardnerella vaginalis*.

**Specimen VP-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Negative | 25 | 100% | Acceptable |

Organism(s) present: *Escherichia coli.*

**CHLAMYDIA (ANTIGEN DETECTION)**

**Specimen CY-6**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 17 | - | 17 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 6 | - | 6 |
| inSTIcheck | 1 | - | 1 |
| Quidel QuickVue | 3 | - | 3 |
| Roche COBAS Amplicor | 2 | - | 2 |

Antigen(s) present: *Neisseria gonorrhoeae*.

**Specimen CY-7**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 17 | 16 | 1 |
| BD ProbeTec | 3 | 3 | - |
| BD Viper | 1 | 1 | - |
| Cepheid GeneXpert | 6 | 6 | - |
| inSTIcheck | 1 | - | 1 |
| Quidel QuickVue | 3 | 3 | - |
| Roche COBAS Amplicor | 2 | 2 | - |

Antigen(s) present: *Chlamydia trachomatis.*

**Specimen CY-8**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 15 | - | 15 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 6 | - | 6 |
| inSTIcheck | 1 | - | 1 |
| Quidel QuickVue | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | - | 2 |

Antigen(s) present: No antigen present.

**Specimen CY-9**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 15 | 14 | 1 |
| BD ProbeTec | 3 | 3 | - |
| BD Viper | 1 | 1 | - |
| Cepheid GeneXpert | 6 | 6 | - |
| inSTIcheck | 1 | - | 1 |
| Quidel QuickVue | 1 | 1 | - |
| Roche COBAS Amplicor | 2 | 2 | - |

Antigen(s) present: *Chlamydia trachomatis.*

**CHLAMYDIA (ANTIGEN DETECTION)**

**Specimen CY-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 15 | - | 15 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 6 | - | 6 |
| inSTIcheck | 1 | - | 1 |
| Quidel QuickVue | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | - | 2 |

Antigen(s) present: *Neisseria gonorrhoeae*.

**GC (ANTIGEN DETECTION)**

**Specimen CY-6**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 13 | 12 | 1 |
| BD ProbeTec | 3 | 3 | - |
| BD Viper | 1 | 1 | - |
| Cepheid GeneXpert | 5 | 5 | - |
| inSTIcheck | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | 2 | - |

Antigen(s) present: *Neisseria gonorrhoeae*.

**Specimen CY-7**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 13 | 2 | 11 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 5 | - | 5 |
| inSTIcheck | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | 1 | 1 |

Antigen(s) present: *Chlamydia trachomatis.*

**Specimen CY-8**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 13 | 1 | 12 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 5 | - | 5 |
| inSTIcheck | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | - | 2 |

Antigen(s) present: No antigen present.

**GC (ANTIGEN DETECTION)**

**Specimen CY-9**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 13 | 1 | 12 |
| BD ProbeTec | 3 | - | 3 |
| BD Viper | 1 | - | 1 |
| Cepheid GeneXpert | 5 | - | 5 |
| inSTIcheck | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | - | 2 |

Antigen(s) present: *Chlamydia trachomatis*.

**Specimen CY-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 13 | 11 | 2 |
| BD ProbeTec | 3 | 2 | 1 |
| BD Viper | 1 | 1 | - |
| Cepheid GeneXpert | 5 | 5 | - |
| inSTIcheck | 1 | - | 1 |
| Roche COBAS Amplicor | 2 | 2 | - |

Antigen(s) present: *Neisseria gonorrhoeae*.

## CRYPTOSPORIDIUM ANTIGEN DETECTION

### Specimen LC-6

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 2 | 2 | - |
| Alere CRYPTOSPORIDIUM II | 1 | 1 | - |
| Cardinal Crypto Giardia Rapid Test | 1 | 1 | - |

Antigen(s) present: *Cryptosporidium* and *Giardia lamblia.*

### Specimen LC-7

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 2 | - | 2 |
| Alere CRYPTOSPORIDIUM II | 1 | - | 1 |
| Cardinal Crypto Giardia Rapid Test | 1 | - | 1 |

Antigen(s) present: No antigen present.

### Specimen LC-8

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 2 | 2 | - |
| Alere CRYPTOSPORIDIUM II | 1 | 1 | - |
| Cardinal Crypto Giardia Rapid Test | 1 | 1 | - |

Antigen(s) present: *Cryptosporidium*.

### Specimen LC-9

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 2 | - | 2 |
| Alere CRYPTOSPORIDIUM II | 1 | - | 1 |
| Cardinal Crypto Giardia Rapid Test | 1 | - | 1 |

Antigen(s) present: *Giardia lamblia*.

### Specimen LC-10

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 2 | - | 2 |
| Alere CRYPTOSPORIDIUM II | 1 | - | 1 |
| Cardinal Crypto Giardia Rapid Test | 1 | - | 1 |

Antigen(s) present: *Giardia lamblia*.

## GIARDIA LAMBLIA ANTIGEN DETECTION

**Specimen LC-6**

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 2 | 2 | - |
| Alere GIARDIA II | 1 | 1 | - |
| Cardinal Crypto Giardia Rapid Test | 1 | 1 | - |

Antigen(s) present: *Cryptosporidium* and *Giardia lamblia.*

**Specimen LC-7**

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 2 | - | 2 |
| Alere GIARDIA II | 1 | - | 1 |
| Cardinal Crypto Giardia Rapid Test | 1 | - | 1 |

Antigen(s) present: No antigen present.

**Specimen LC-8**

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 2 | - | 2 |
| Alere GIARDIA II | 1 | - | 1 |
| Cardinal Crypto Giardia Rapid Test | 1 | - | 1 |

Antigen(s) present: *Cryptosporidium.*

**Specimen LC-9**

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 2 | 2 | - |
| Alere GIARDIA II | 1 | 1 | - |
| Cardinal Crypto Giardia Rapid Test | 1 | 1 | - |

Antigen(s) present: *Giardia lamblia*.

**Specimen LC-10**

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 2 | 2 | - |
| Alere GIARDIA II | 1 | 1 | - |
| Cardinal Crypto Giardia Rapid Test | 1 | 1 | - |

Antigen(s) present: *Giardia lamblia*.

## RSV ANTIGEN DETECTION

### Specimen V-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 62 | 62 | - |
| Alere Binax NOW - waived | 30 | 30 | - |
| Alere Clearview RSV - waived | 1 | 1 | - |
| Alere i Instrument - waived | 1 | 1 | - |
| BD Veritor - moderate | 3 | 3 | - |
| BD Veritor - waived | 1 | 1 | - |
| Quidel QuickVue RSV - waived | 7 | 7 | - |
| Quidel QuickVue RSV 10 Test | 2 | 2 | - |
| Quidel Sofia - waived | 16 | 16 | - |

Antigen(s) present: RSV.

### Specimen V-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 62 | 1 | 61 |
| Alere Binax NOW - waived | 30 | 1 | 29 |
| Alere Clearview RSV - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| BD Veritor - moderate | 3 | - | 3 |
| BD Veritor - waived | 1 | - | 1 |
| Quidel QuickVue RSV - waived | 7 | - | 7 |
| Quidel QuickVue RSV 10 Test | 2 | - | 2 |
| Quidel Sofia - waived | 16 | - | 16 |

Antigen(s) present: Influenza A.

### Specimen V-8

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 18 | - | 18 |
| Alere Binax NOW - waived | 2 | - | 2 |
| BD Veritor - moderate | 3 | - | 3 |
| Quidel QuickVue RSV - waived | 3 | - | 3 |
| Quidel QuickVue RSV 10 Test | 2 | - | 2 |
| Quidel Sofia - waived | 7 | - | 7 |

Antigen(s) present: No antigen present.

## RSV ANTIGEN DETECTION

### Specimen V-9

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 18 | 18 | - |
| Alere Binax NOW - waived | 2 | 2 | - |
| BD Veritor - moderate | 3 | 3 | - |
| Quidel QuickVue RSV - waived | 3 | 3 | - |
| Quidel QuickVue RSV 10 Test | 2 | 2 | - |
| Quidel Sofia - waived | 7 | 7 | - |

Antigen(s) present: RSV.

### Specimen V-10

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 18 | - | 18 |
| Alere Binax NOW - waived | 2 | - | 2 |
| BD Veritor - moderate | 3 | - | 3 |
| Quidel QuickVue RSV - waived | 3 | - | 3 |
| Quidel QuickVue RSV 10 Test | 2 | - | 2 |
| Quidel Sofia - waived | 7 | - | 7 |

Antigen(s) present: Influenza A.

## INFLUENZA A/B ANTIGEN DETECTION

### Specimen V-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 22 | 1 | 21 |
| Alere Influenza A&B | 1 | - | 1 |
| Consult Diagnostics Influenza A & B | 4 | - | 4 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Medline Influenza A&B | 1 | - | 1 |
| Other Waived Method | 2 | - | 2 |
| Quidel QuickVue Influenza | 10 | - | 10 |
| Quidel Sofia - waived | 1 | - | 1 |
| Sekisui OSOM Ultra -waived | 1 | - | 1 |

Antigen(s) present: RSV.

## INFLUENZA A/B ANTIGEN DETECTION

### Specimen V-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 21 | 20 | 1 |
| Alere Influenza A&B | 1 | 1 | - |
| Consult Diagnostics Influenza A & B | 3 | 3 | - |
| Henry Schein OneStep+ Flu A&B | 1 | 1 | - |
| Medline Influenza A&B | 1 | 1 | - |
| Other Waived Method | 2 | 2 | - |
| Quidel QuickVue Influenza | 10 | 10 | - |
| Quidel Sofia - waived | 1 | 1 | - |
| Sekisui OSOM Ultra -waived | 1 | 1 | - |

Antigen(s) present: Influenza A.

### Specimen V-8

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 6 | - | 6 |
| Quidel QuickVue Influenza | 6 | - | 6 |

Antigen(s) present: No antigen present.

### Specimen V-9

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 6 | - | 6 |
| Quidel QuickVue Influenza | 6 | - | 6 |

Antigen(s) present: RSV.

### Specimen V-10

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 6 | 6 | - |
| Quidel QuickVue Influenza | 6 | 6 | - |

Antigen(s) present: Influenza A.

## INFLUENZA A ANTIGEN DETECTION

### Specimen V-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 275 | 5 | 270 |
| Alere Binax NOW - waived | 8 | - | 8 |
| Alere i Instrument - moderate | 2 | - | 2 |
| Alere i Instrument - waived | 7 | - | 7 |
| Alere Influenza A&B | 15 | - | 15 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 48 | 2 | 46 |
| BioSign Flu A+B | 1 | - | 1 |
| Consult Diagnostics Influenza A & B | 10 | - | 10 |
| Henry Schein OneStep+ Flu A&B | 12 | - | 12 |
| Medline Influenza A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 4 | - | 4 |
| OraSure QuickFlu | 2 | - | 2 |
| Other Waived Method | 2 | 1 | 1 |
| Quidel QuickVue Influenza A+B | 18 | 1 | 17 |
| Quidel Sofia - waived | 124 | 1 | 123 |
| Roche cobas Liat | 3 | - | 3 |
| Sekisui OSOM Influenza A&B | 2 | - | 2 |
| Sekisui OSOM Ultra -waived | 12 | - | 12 |

Antigen(s) present: RSV.

### Specimen V-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 274 | 267 | 7 |
| Alere Binax NOW - waived | 8 | 7 | 1 |
| Alere i Instrument - moderate | 2 | 1 | 1 |
| Alere i Instrument - waived | 7 | 7 | - |
| Alere Influenza A&B | 15 | 15 | - |
| BD Veritor - moderate | 4 | 4 | - |
| BD Veritor - waived | 47 | 45 | 2 |
| BioSign Flu A+B | 1 | 1 | - |
| Consult Diagnostics Influenza A & B | 10 | 10 | - |
| Henry Schein OneStep+ Flu A&B | 12 | 12 | - |
| Medline Influenza A&B | 1 | 1 | - |
| Meridian ImmunoCard STAT - waived | 4 | 4 | - |
| OraSure QuickFlu | 2 | 2 | - |
| Other Waived Method | 2 | 1 | 1 |
| Quidel QuickVue Influenza A+B | 18 | 18 | - |
| Quidel Sofia - waived | 124 | 122 | 2 |
| Roche cobas Liat | 3 | 3 | - |
| Sekisui OSOM Influenza A&B | 2 | 2 | - |
| Sekisui OSOM Ultra -waived | 12 | 12 | - |

Antigen(s) present: Influenza A.

## INFLUENZA A ANTIGEN DETECTION

### Specimen V-8

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 27 | 1 | 26 |
| Alere Binax NOW - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| Alere Influenza A&B | 2 | - | 2 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 1 | - | 1 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 3 | - | 3 |
| Quidel QuickVue Influenza A+B | 3 | - | 3 |
| Quidel Sofia - waived | 10 | 1 | 9 |
| Sekisui OSOM Influenza A&B | 1 | - | 1 |

Antigen(s) present: No antigen present.

### Specimen V-9

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 27 | - | 27 |
| Alere Binax NOW - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| Alere Influenza A&B | 2 | - | 2 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 1 | - | 1 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 3 | - | 3 |
| Quidel QuickVue Influenza A+B | 3 | - | 3 |
| Quidel Sofia - waived | 10 | - | 10 |
| Sekisui OSOM Influenza A&B | 1 | - | 1 |

Antigen(s) present: RSV.

### Specimen V-10

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 27 | 27 | - |
| Alere Binax NOW - waived | 1 | 1 | - |
| Alere i Instrument - waived | 1 | 1 | - |
| Alere Influenza A&B | 2 | 2 | - |
| BD Veritor - moderate | 4 | 4 | - |
| BD Veritor - waived | 1 | 1 | - |
| Henry Schein OneStep+ Flu A&B | 1 | 1 | - |
| Meridian ImmunoCard STAT - waived | 3 | 3 | - |
| Quidel QuickVue Influenza A+B | 3 | 3 | - |
| Quidel Sofia - waived | 10 | 10 | - |
| Sekisui OSOM Influenza A&B | 1 | 1 | - |

Antigen(s) present: Influenza A.

## INFLUENZA B ANTIGEN DETECTION

### Specimen V-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 275 | 3 | 272 |
| Alere Binax NOW - waived | 10 | - | 10 |
| Alere i Instrument - moderate | 2 | - | 2 |
| Alere i Instrument - waived | 7 | - | 7 |
| Alere Influenza A&B | 14 | - | 14 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 47 | 1 | 46 |
| BioSign Flu A+B | 1 | - | 1 |
| Consult Diagnostics Influenza A & B | 10 | - | 10 |
| Henry Schein OneStep+ Flu A&B | 12 | - | 12 |
| Medline Influenza A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 4 | - | 4 |
| OraSure QuickFlu | 2 | - | 2 |
| Other Waived Method | 2 | - | 2 |
| Quidel QuickVue Influenza A+B | 18 | - | 18 |
| Quidel Sofia - waived | 124 | 1 | 123 |
| Roche cobas Liat | 3 | - | 3 |
| Sekisui OSOM Influenza A&B | 2 | - | 2 |
| Sekisui OSOM Ultra -waived | 12 | 1 | 11 |

Antigen(s) present: RSV.

### Specimen V-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 274 | 1 | 273 |
| Alere Binax NOW - waived | 10 | - | 10 |
| Alere i Instrument - moderate | 2 | 1 | 1 |
| Alere i Instrument - waived | 7 | - | 7 |
| Alere Influenza A&B | 14 | - | 14 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 46 | - | 46 |
| BioSign Flu A+B | 1 | - | 1 |
| Consult Diagnostics Influenza A & B | 10 | - | 10 |
| Henry Schein OneStep+ Flu A&B | 12 | - | 12 |
| Medline Influenza A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 4 | - | 4 |
| OraSure QuickFlu | 2 | - | 2 |
| Other Waived Method | 2 | - | 2 |
| Quidel QuickVue Influenza A+B | 18 | - | 18 |
| Quidel Sofia - waived | 124 | - | 124 |
| Roche cobas Liat | 3 | - | 3 |
| Sekisui OSOM Influenza A&B | 2 | - | 2 |
| Sekisui OSOM Ultra -waived | 12 | - | 12 |

Antigen(s) present: Influenza A.

## INFLUENZA B ANTIGEN DETECTION

### Specimen V-8

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 27 | - | 27 |
| Alere Binax NOW - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| Alere Influenza A&B | 2 | - | 2 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 1 | - | 1 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 3 | - | 3 |
| Quidel QuickVue Influenza A+B | 3 | - | 3 |
| Quidel Sofia - waived | 10 | - | 10 |
| Sekisui OSOM Influenza A&B | 1 | - | 1 |

Antigen(s) present: No antigen present.

### Specimen V-9

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 27 | - | 27 |
| Alere Binax NOW - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| Alere Influenza A&B | 2 | - | 2 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 1 | - | 1 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 3 | - | 3 |
| Quidel QuickVue Influenza A+B | 3 | - | 3 |
| Quidel Sofia - waived | 10 | - | 10 |
| Sekisui OSOM Influenza A&B | 1 | - | 1 |

Antigen(s) present: RSV.

## INFLUENZA B ANTIGEN DETECTION

### Specimen V-5

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 27 | - | 27 |
| Alere Binax NOW - waived | 1 | - | 1 |
| Alere i Instrument - waived | 1 | - | 1 |
| Alere Influenza A&B | 2 | - | 2 |
| BD Veritor - moderate | 4 | - | 4 |
| BD Veritor - waived | 1 | - | 1 |
| Henry Schein OneStep+ Flu A&B | 1 | - | 1 |
| Meridian ImmunoCard STAT - waived | 3 | - | 3 |
| Quidel QuickVue Influenza A+B | 3 | - | 3 |
| Quidel Sofia - waived | 10 | - | 10 |
| Sekisui OSOM Influenza A&B | 1 | - | 1 |

Antigen(s) present: : Influenza A.

## CLOSTRIDIUM DIFFICILE ANTIGEN DETECTION

### Specimen AG-6

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 5 | 5 | - |
| Alere C. diff Quik Chek | 5 | 5 | - |

Antigen(s) present: *Clostridium difficile*.

### Specimen AG-7

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 5 | - | 5 |
| Alere C. diff Quik Chek | 5 | - | 5 |

Antigen(s) present: Rotavirus.

### Specimen AG-8

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 5 | 5 | - |
| Alere C. diff Quik Chek | 5 | 5 | - |

Antigen(s) present: *Clostridium difficile* and Rotavirus.

### Specimen AG-9

| *Method* | *Labs* | *Positive* | *Negative* |
|---|---|---|---|
| ALL METHODS | 5 | - | 5 |
| Alere C. diff Quik Chek | 5 | - | 5 |

Antigen(s) present: No antigen present.

**CLOSTRIDIUM DIFFICILE TOXIN ANTIGEN DETECTION**

**Specimen AG-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | - | 5 |
| Alere C. diff Quik Chek | 5 | - | 5 |

Antigen(s) present: Rotavirus.

**ROTAVIRUS ANTIGEN DETECTION**

**Specimen AG-6**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | - | 5 |
| Fisher HealthCare Sure-Vue | 5 | - | 5 |

Antigen(s) present: *Clostridium difficile*.

**Specimen AG-7**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | 5 | - |
| Fisher HealthCare Sure-Vue | 5 | 5 | - |

Antigen(s) present: Rotavirus.

**Specimen AG-8**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | 5 | - |
| Fisher HealthCare Sure-Vue | 5 | 5 | - |

Antigen(s) present: *Clostridium difficile* and Rotavirus.

**Specimen AG-9**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | - | 5 |
| Fisher HealthCare Sure-Vue | 5 | - | 5 |

Antigen(s) present: No antigen present.

**Specimen AG-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| ALL METHODS | 5 | 5 | - |
| Fisher HealthCare Sure-Vue | 5 | 5 | - |

Antigen(s) present: Rotavirus.

**LEGIONELLA ANTIGEN DETETION**

**Specimen L-6**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 14 | 14 | - |

**Specimen L-7**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 14 | 1 | 13 |

**Specimen L-8**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 14 | - | 14 |

**Specimen L-9**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 14 | 14 | - |

**Specimen L-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 14 | - | 14 |

**STREPTOCOCCUS PNEUMONIAE ANTIGEN**

**Specimen SP-6**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 12 | 12 | - |

**Specimen SP-7**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 12 | - | 12 |

**Specimen SP-8**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 12 | - | 12 |

**Specimen SP-9**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 12 | 12 | - |

**Specimen SP-10**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Binax NOW | 12 | 12 | - |

## PARASITOLOGY

**Specimen PA-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dientamoeba fragilis | 1 | 100% | Acceptable |

Parasite(s) present: *Dientamoeba fragilis.*

**Specimen PA-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| No parasite seen | 1 | 100% | Acceptable |

Parasite(s) present: Negative for parasites.

**Specimen PA-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Hymenolepis nana eggs | 1 | 100% | Acceptable |

Parasite(s) present: *Hymenolepis nana* eggs

**Specimen PA-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Entamoeba histolytica | 1 | 100% | Acceptable |

Parasite(s) present: Entamoeba histolytica.

**Specimen PA-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Strongyloides stercoralis larvae | 1 | 100% | Acceptable |

Parasite(s) present: *Strongyloides stercoralis* larvae.

**DERMATOPHYTE CULTURE**

**Specimen DM-6**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dermatophyte present | 8 | 88.89% | Acceptable |
| Dermatophyte negative | 1 | 11.11% | |

Organism(s) present: *Microsporum gypseum* and *Corynebacterium sp.*

**Specimen DM-7**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dermatophyte absent | 8 | 88.89% | Acceptable |
| No growth (sterile) | 1 | 11.11% | |

Organism(s) present: *Staphylococcus epidermidis.*

**Specimen DM-8**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dermatophyte present | 8 | 88.89% | Acceptable |
| Dermatophyte absent | 1 | 11.11% | |

Organism(s) present: *Trichophyton tonsurans* and *Staphylococcus epidermidis.*

**Specimen DM-9**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dermatophyte absent | 9 | 100% | Acceptable |

Organism(s) present: *Aspergillus niger.*

**Specimen DM-10**

| ***Identification*** | ***Labs*** | ***Percent*** | ***Performance*** |
|---|---|---|---|
| Dermatophyte present | 8 | 88.89% | Acceptable |
| Dermatophyte absent | 1 | 11.11% | |

Organism(s) present: *Trichophyton rubrum and Corynebacterium sp.*

**BACTERIAL VAGINOSIS – OSOM - WAIVED**

**Specimen BV-3**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Sekisui OSOM | 7 | - | 7 |

Antigen(s) present: No antigen present.

**Specimen BV-4**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Sekisui OSOM | 7 | 7 | - |

Antigen(s) present: *Gardnerella vaginalis.*

**TRICHOMONAS VAGINALIS – OSOM - WAIVED**

**Specimen TR-3**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Sekisui OSOM | 4 | 4 | - |

Antigen(s) present: *Trichomonas vaginalis.*

**Specimen TR-4**

| ***Method*** | ***Labs*** | ***Positive*** | ***Negative*** |
|---|---|---|---|
| Sekisui OSOM | 4 | - | 4 |

Antigen(s) present: No antigen present.

**Medical Laboratory Evaluation**
25 Massachusetts Ave NW Ste 700
Washington, DC 20001-7401
800-338-2746 • 202-261-4500 • Fax: 202-835-0440