PARTICIPANT SUMMARY

2 • 0 • 1 • 9

Microbiology
2019 MLE-M1
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Microbiology

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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.

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<th>Procedure</th>
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<td>Affirm VP III Trichomonas Ag Detection</td>
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<td>Bacterial Identification ( Cultures )</td>
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<tr>
<td>Bacterial Vaginosis (OSOM)</td>
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<tr>
<td>Chlamydia (EIA, DNA)</td>
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<td>Clostridioides difficile Antigen Detection</td>
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<tr>
<td>Colony Count</td>
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<td>GC (EIA, DNA)</td>
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<td>Gram Stain Morphology</td>
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<td>Urine Presumptive Identification</td>
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METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS SCREENING

Specimen MSA-1

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<th>Labs</th>
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Organism(s) present: *Staphylococcus aureus* - Methicillin resistant and *Micrococcus luteus*.

Specimen MSA-2

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

Specimen MSA-3

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Organism(s) present: *Streptococcus sanguinis*.

Specimen MSA-4

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Organism(s) present: *Staphylococcus epidermidis* and *Neisseria meningitidis*.

Specimen MSA-5

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Organism(s) present: *Staphylococcus aureus* - Methicillin resistant.
## STREP A ANTIGEN DETECTION

### Specimen RS-1

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### STREP A ANTIGEN DETECTION

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## STREP A ANTIGEN DETECTION

### Specimen RS-3

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## STREP A ANTIGEN DETECTION

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<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Beckman Coulter ICON DS</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Consult Diagnostic Strep A Dipstick - Waived</td>
<td>11</td>
<td>11</td>
<td>-</td>
</tr>
<tr>
<td>Henry Schein One Step+ - waived</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>McKesson Strep A Dipstick</td>
<td>2</td>
<td>2</td>
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</tr>
<tr>
<td>Meridian Illumigene</td>
<td>1</td>
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</tr>
<tr>
<td>Quidel QuickVue Dipstick Strep</td>
<td>9</td>
<td>9</td>
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</tr>
<tr>
<td>Quidel QuickVue In-Line</td>
<td>16</td>
<td>16</td>
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<tr>
<td>Quidel QuickVue+</td>
<td>3</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Quidel Sofia Strep A - moderate</td>
<td>2</td>
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<tr>
<td>Quidel Sofia Strep A+ - waived</td>
<td>3</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Quidel Solana</td>
<td>3</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Sekisui OSOM</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Sekisui OSOM Ultra -waived</td>
<td>4</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>
MISCELLANEOUS CULTURES

Specimen BA-1 – Blood Culture

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus cereus</td>
<td>2</td>
<td>40.00%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Bacillus sp.</td>
<td>3</td>
<td>60.00%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Bacillus cereus*.

Specimen BA-2 – Stool Culture

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salmonella Group D</td>
<td>5</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Salmonella enteritidis*.

Specimen BA-3 – Wound Culture

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus sp.</td>
<td>5</td>
<td>55.56%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Vibrio sp.</td>
<td>4</td>
<td>44.44%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Vibrio vulnificus* and *Staphylococcus pseudintermedius*.
THROAT CULTURE

Specimen TC-1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive for Group A Strep</td>
<td>46</td>
<td>49.46%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Pos. Group A Strep</td>
<td>33</td>
<td>35.48%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Streptococcus pyogenes</td>
<td>7</td>
<td>7.53%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Staphylococcus sp.</td>
<td>4</td>
<td>4.30%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Staph – coagulase neg.</td>
<td>2</td>
<td>2.15%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Streptococcus pyogenes* and *Staphylococcus epidermidis*.

Specimen TC-2

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative for Group A Strep</td>
<td>84</td>
<td>87.50%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Growth, referred for identification</td>
<td>8</td>
<td>8.33%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Elizabethkingia meningoseptica*.

Specimen TC-3

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative for Group A Strep</td>
<td>51</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Streptococcus sanguinis* and *Haemophilus influenzae*.

Specimen TC-4

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative for Group A Strep</td>
<td>48</td>
<td>97.96%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Neisseria sicca* and *Staphylococcus lugdunensis*.

Specimen TC-5

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presump. Pos. Group A Strep</td>
<td>26</td>
<td>53.06%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Positive for Group A Strep</td>
<td>22</td>
<td>44.90%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Streptococcus pyogenes*. 
URINE CULTURE

Specimen UC-1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrobacter koseri</td>
<td>24</td>
<td>47.06%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Citrobacter sp.</td>
<td>14</td>
<td>27.45%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Growth, referred for identification</td>
<td>6</td>
<td>11.76%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>5</td>
<td>9.80%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Gram negative bacilli</td>
<td>2</td>
<td>3.92%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

**Gram Stain**

Gram negative                                    | 23   | 100%     | Acceptable  |

**Gram Stain Morphology**

Rods/bacilli                                       | 23   | 100%     | Acceptable  |

Organism(s) present: *Citrobacter koseri*.

Specimen UC-2

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus saprophyticus</td>
<td>31</td>
<td>37.33%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Growth, referred for identification</td>
<td>22</td>
<td>26.51%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram positive</td>
<td>3</td>
<td>3.61%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Staphylococcus sp.</td>
<td>2</td>
<td>2.41%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Micrococcus sp.</td>
<td>2</td>
<td>2.41%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Gram positive cocci</td>
<td>2</td>
<td>2.41%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Staph – coagulase neg.</td>
<td>2</td>
<td>2.41%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Staphylococcus sp.</td>
<td>1</td>
<td>1.20%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Micrococcus luteus* and *Staphylococcus saprophyticus*. This challenge was graded by 93% referee consensus.

*Micrococcus luteus* is an opportunistic pathogen commonly seen in nosocomial infections. It is found in dust, soil, water and normal human skin flora. Patients with meningitis, septic arthritis, endocarditis, catheter infections and HIV are most susceptible to *M. luteus* infections. Clinically, skin infections similar to *Staphylococcus aureus* are seen. *M. luteus* can also cause body odor when breaking down components of sweat.

*Micrococcus luteus* is an obligate aerobe, forming gram-positive cocci in tetrads or irregular clusters. It can grow on several types of media including nutrient and sheep blood agar. The small bright yellow circular colonies are often mistaken for *Staphylococcus aureus*. *M. luteus* grows slowly, requiring incubation of plates for up to 48 hours.

*Staphylococcus saprophyticus* is a facultative anaerobe, forming gram-positive cocci in clusters. It appears as white non-hemolytic colonies on sheep blood agar. It is found as normal flora in the female genital tract. It can cause uncomplicated UTI in the female and symptomatic UTI in the male.
URINE CULTURE

Specimen UC-3

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>No growth (sterile)</td>
<td>30</td>
<td>93.75%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: No organism present.

Specimen UC-4

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escherichia coli</td>
<td>7</td>
<td>33.33%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Growth, referred for identification</td>
<td>5</td>
<td>23.81%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Streptococcus alpha-hemolytic</td>
<td>2</td>
<td>9.52%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>2</td>
<td>9.52%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram positive</td>
<td>2</td>
<td>9.52%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Streptococcus sp.</td>
<td>1</td>
<td>4.76%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Streptococcus salivarius</td>
<td>1</td>
<td>4.76%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Escherichia coli* and *Streptococcus salivarius*.

Specimen UC-5

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth, referred for identification</td>
<td>7</td>
<td>38.89%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Morganella morganii</td>
<td>4</td>
<td>22.22%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Corynebacterium sp.</td>
<td>3</td>
<td>16.67%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>2</td>
<td>11.11%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram positive</td>
<td>2</td>
<td>11.11%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Morganella morganii* and *Corynebacterium sp.*
ANTIMICROBIAL SUSCEPTIBILITY TESTING

Specimen UC-1, CC-1 (SUS-1) Organism(s) present: *Citrobacter koseri*.

<table>
<thead>
<tr>
<th>Antimicrobial</th>
<th>Disk Diffusion Interpretative category data</th>
<th>MIC Interpretative category data</th>
<th>Acceptable (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Labs</td>
<td>S</td>
<td>I</td>
</tr>
<tr>
<td>Amikacin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amoxicillin/Clavulanate</td>
<td>13</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Ampicillin</td>
<td>34</td>
<td>-</td>
<td>34</td>
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<tr>
<td>Ampicillin/Sulbactam</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aztreonam</td>
<td></td>
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</tr>
<tr>
<td>Cefaclor</td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>Cefamandole</td>
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<tr>
<td>Cefazolin</td>
<td>28</td>
<td>28</td>
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<tr>
<td>Cefdinir</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Cefepime</td>
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</tr>
<tr>
<td>Cefixime</td>
<td>5</td>
<td>5</td>
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<td>Cefotaxime</td>
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<tr>
<td>Cefoxitin</td>
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<tr>
<td>Cefpodoxime</td>
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<td>5</td>
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<tr>
<td>Ceftazidime</td>
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<td>2</td>
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<tr>
<td>Ceftizoxime</td>
<td>1</td>
<td>1</td>
<td></td>
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<td>Ceftriaxone</td>
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<td>8</td>
<td></td>
</tr>
<tr>
<td>Cefuroxime</td>
<td>7</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Ciprofloxacin</td>
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<td>37</td>
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<td>Ertapenem</td>
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<td></td>
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</tr>
<tr>
<td>Gentamicin</td>
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<td>30</td>
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</tr>
<tr>
<td>Imipenem</td>
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</tr>
<tr>
<td>Levofloxacin</td>
<td>7</td>
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</tr>
<tr>
<td>Meropenem</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Nalidixic Acid</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Nitrofurantoin</td>
<td>31</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Piperacillin/Tazobactam</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sulfonamides</td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>Tetracycline</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Tobramycin</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Trimethoprim</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Trimethoprim/Sulfamethoxazole</td>
<td>34</td>
<td>34</td>
<td></td>
</tr>
</tbody>
</table>

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 Inappropriate method reported for this drug.
GENITAL CULTURE

Specimen GC-1

Identification	Labs	Percent	Performance
Presumptive for N. gonorrhoeae	18	69.23%	Acceptable
Neisseria gonorrhoeae	5	19.23%	Acceptable
Growth, referred for identification	2	7.69%	Acceptable
Gram negative diplococci	1	3.85%	Acceptable

Gram Stain

Gram negative	17	94.44%	Acceptable
Gram positive	1	5.56%

Gram Stain Morphology

Diplococci	17	94.44%	Acceptable
Rods/bacilli	1	5.56%

Organism(s) present: Neisseria gonorrhoeae.

Specimen GC-2

Identification	Labs	Percent	Performance
Presumptive for N. gonorrhoeae	6	50.00%	Acceptable
Staphylococcus aureus	3	25.00%	Acceptable
Neisseria gonorrhoeae	3	25.00%	Acceptable

Organism(s) present: Neisseria gonorrhoeae and Staphylococcus aureus.

Specimen GC-3

Identification	Labs	Percent	Performance
Negative for N. gonorrhoeae	8	57.14%	Acceptable
Enterococcus sp.	3	21.43%	Acceptable
Escherichia coli	2	14.29%	Acceptable

Organism(s) present: Enterococcus faecalis and Escherichia coli.
**GENITAL CULTURE**

Specimen GC-4

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative for N. gonorrhoeae</td>
<td>6</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Serratia marcescens* and *Staphylococcus saprophyticus*.

Specimen GC-5

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presumptive for N. gonorrhoeae</td>
<td>5</td>
<td>83.33%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Neisseria gonorrhoeae</td>
<td>1</td>
<td>16.67%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Neisseria gonorrhoeae*. 
COLONY COUNT/PRESUMPTIVE IDENTIFICATION

Specimen CC-1

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>No growth</th>
<th>&lt;10,000 organisms/mL</th>
<th>10,000-100,000 organisms/mL</th>
<th>&gt;100,000 organisms/mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>46</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>37</td>
</tr>
<tr>
<td>Calibrated Loop</td>
<td>20</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>16</td>
</tr>
<tr>
<td>Uri-Check</td>
<td>5</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Uricult</td>
<td>20</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>17</td>
</tr>
</tbody>
</table>

Identification—Specimen CC-1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth, referred for identification</td>
<td>6</td>
<td>50.00%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>5</td>
<td>41.67%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Citrobacter koseri</td>
<td>1</td>
<td>8.33%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

Specimen CC-2

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>No growth</th>
<th>&lt;10,000 organisms/mL</th>
<th>10,000-100,000 organisms/mL</th>
<th>&gt;100,000 organisms/mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>45</td>
<td>21</td>
<td>21</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Calibrated Loop</td>
<td>20</td>
<td>8</td>
<td>11</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Uri-Check</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Uricult</td>
<td>19</td>
<td>10</td>
<td>7</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

Identification—Specimen CC-2

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth, referred for identification</td>
<td>3</td>
<td>27.27%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram positive</td>
<td>1</td>
<td>9.09%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Staphylococcus sp.</td>
<td>1</td>
<td>9.09%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: 9,000 CFU/mL of *Micrococcus luteus* and 5,000 CFU/mL of *Staphylococcus saprophyticus*. The presumptive identification was graded by 93% referee consensus and the colony count was graded by 82% referee consensus.

*Micrococcus luteus* is an opportunistic pathogen commonly seen in nosocomial infections. It is found in dust, soil, water and normal human skin flora. Patients with meningitis, septic arthritis, endocarditis, catheter infections and HIV are most susceptible to *M. luteus* infections. Clinically, skin infections similar to *Staphylococcus aureus* are seen. *M. luteus* can also cause body odor when breaking down components of sweat.

*Micrococcus luteus* is an obligate aerobe, forming gram-positive cocci in tetrads or irregular clusters. It can grow on several types of media including nutrient and sheep blood agar. The small bright yellow circular colonies are often mistaken for *Staphylococcus aureus*. *M. luteus* grows slowly, requiring incubation of plates for up to 48 hours.

*Staphylococcus saprophyticus* is a facultative anaerobe, forming gram-positive cocci in clusters. It appears as white non-hemolytic colonies on sheep blood agar. It is found as normal flora in the female genital tract. It can cause uncomplicated UTI in the female and symptomatic UTI in the male.
### COLONY COUNT/PRESUMPTIVE IDENTIFICATION

**Identification--Specimen CC-3**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>No growth (sterile)</td>
<td>10</td>
<td>90.91%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: No Organism present.

**Identification--Specimen CC-4**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth, referred for identification</td>
<td>5</td>
<td>45.45%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>3</td>
<td>27.27%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Escherichia coli</td>
<td>2</td>
<td>18.18%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Escherichia coli</td>
<td>1</td>
<td>9.09%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: 12,000 CFU/mL of *Escherichia coli* and 5,000 CFU/mL of *Streptococcus salivarius*.

**Identification--Specimen CC-5**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth, referred for identification</td>
<td>5</td>
<td>45.45%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Presump. Gram negative</td>
<td>5</td>
<td>45.45%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Morganella morganii</td>
<td>1</td>
<td>9.09%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: >100,000 CFU/mL of *Morganella morganii* and <10,000 CFU/mL of *Corynebacterium* sp.
**GRAM STAIN**

Specimen GS-1

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram negative</td>
<td>15</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

**Gram Stain Morphology**

Rods/bacilli 11 100% Acceptable

Organism(s) present: *Campylobacter jejuni*.

Specimen GS-2

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram negative</td>
<td>13</td>
<td>86.67%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Gram positive</td>
<td>2</td>
<td>13.33%</td>
<td></td>
</tr>
</tbody>
</table>

**Gram Stain Morphology**

Diplococci 8 72.73% Acceptable
Cocci 3 27.27%

Organism(s) present: *Moraxella catarrhalis*. 
GRAM STAIN

Specimen GS-3

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram positive</td>
<td>14</td>
<td>93.33%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Gram negative</td>
<td>1</td>
<td>6.67%</td>
<td></td>
</tr>
</tbody>
</table>

**Gram Stain Morphology**

Cocci          8  72.73%  Acceptable
Diplococci     3  27.27%  

Organism(s) present: *Micrococcus luteus*. The gram stain morphology was graded by 80% referee consensus.

Specimen GS-4

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram positive</td>
<td>14</td>
<td>93.33%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Gram negative</td>
<td>1</td>
<td>6.67%</td>
<td></td>
</tr>
</tbody>
</table>

**Gram Stain Morphology**

Rods/bacilli  7  63.64%  Acceptable
Cocci         2  18.18%  
Coccobacilli  2  18.18%  

Organism(s) present: *Actinomyces odontolyticus*. The gram stain morphology was graded by 80% referee consensus.

Specimen GS-5

<table>
<thead>
<tr>
<th>Reaction</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram negative</td>
<td>14</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

**Gram Stain Morphology**

Rods/bacilli  7  70.00%  Acceptable
Coccobacilli  2  20.00%  
Diplococci    1  10.00%  

Organism(s) present: *Bacteroides fragilis*. The gram stain morphology was graded by 80% referee consensus.
**AFFIRM VP III–Trichomonas vaginalis**

**Specimen VP-1**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

**Specimen VP-2**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Trichomonas vaginalis*.

**Specimen VP-3**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Gardnerella vaginalis*.

**Specimen VP-4**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

**Specimen VP-5**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: No organism present.
**AFFIRM VP III--Gardnerella vaginalis**

**Specimen VP-1**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

**Specimen VP-2**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Trichomonas vaginalis*.

**Specimen VP-3**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Gardnerella vaginalis*.

**Specimen VP-4**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

**Specimen VP-5**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: No organism present.
AFFIRM VP III–Candida sp.

Specimen VP-1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

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

Specimen VP-2

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Trichomonas vaginalis*

Specimen VP-3

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Gardnerella vaginalis*.

Specimen VP-4

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
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</tr>
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<td>Negative</td>
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</table>

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

Specimen VP-5

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>27</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: No organism present.
**CHLAMYDIA (ANTIGEN DETECTION)**

**Specimen CY-1**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>18</td>
<td>-</td>
<td>18</td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Quidel QuickVue</td>
<td>3</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Neisseria gonorrhoeae.*

**Specimen CY-2**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>18</td>
<td>18</td>
<td>-</td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>Quidel QuickVue</td>
<td>3</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Chlamydia trachomatis.*

**Specimen CY-3**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>16</td>
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<td>16</td>
</tr>
<tr>
<td>BD Max</td>
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<td>-</td>
<td>1</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Quidel QuickVue</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

Antigen(s) present: No antigen present.

**Specimen CY-4**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>16</td>
<td>16</td>
<td>-</td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>Quidel QuickVue</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
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<td>2</td>
<td>-</td>
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</tbody>
</table>

Antigen(s) present: *Chlamydia trachomatis.*
### CHLAMYDIA (ANTIGEN DETECTION)

**Specimen CY-5**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>16</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Quidel QuickVue</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
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<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Antigen(s) present: *Neisseria gonorrhoeae* and *Chlamydia trachomatis*.

### GC (ANTIGEN DETECTION)

**Specimen CY-1**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>15</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Antigen(s) present: *Neisseria gonorrhoeae*.

**Specimen CY-2**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>15</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BD Max</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Chlamydia trachomatis*.

**Specimen CY-3**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>15</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BD Max</td>
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<td></td>
<td>1</td>
</tr>
<tr>
<td>BD ProbeTec</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Roche COBAS Amplicor</td>
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<td>2</td>
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</tbody>
</table>

Antigen(s) present: No antigen present.
### GC (ANTIGEN DETECTION)

**Specimen CY-4**

<table>
<thead>
<tr>
<th>Method</th>
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<tr>
<td>BD ProbeTec</td>
<td>4</td>
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</tr>
<tr>
<td>Cepheid GeneXpert - moderate</td>
<td>8</td>
<td>-</td>
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<tr>
<td>Roche COBAS Amplicor</td>
<td>2</td>
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Antigen(s) present: *Chlamydia trachomatis*.

**Specimen CY-5**

<table>
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<tr>
<td>BD ProbeTec</td>
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<td>Cepheid GeneXpert - moderate</td>
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<tr>
<td>Roche COBAS Amplicor</td>
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Antigen(s) present: *Neisseria gonorrhoeae and Chlamydia trachomatis*. 
# CRYPTOSPORIDIUM ANTIGEN DETECTION

## Specimen LC-1

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

## Specimen LC-2

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Antigen(s) present: No antigen present.

## Specimen LC-3

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Antigen(s) present: *Cryptosporidium*. This is an ungraded challenge due to lack of participant consensus.

## Specimen LC-4

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<td>Cardinal Crypto Giardia Rapid Test</td>
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Antigen(s) present: *Giardia lamblia* and *Cryptosporidium*.

## Specimen LC-5

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Antigen(s) present: *Giardia lamblia*. 
## GIARDIA LAMBLIA ANTIGEN DETECTION

### Specimen LC-1

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

### Specimen LC-2

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Antigen(s) present: *No antigen present.*

### Specimen LC-3

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Antigen(s) present: *Cryptosporidium.*

### Specimen LC-4

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

### Specimen LC-5

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Antigen(s) present: *Giardia lamblia.*
## RSV ANTIGEN DETECTION

### Specimen V-1

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<td>Alere I Instrument - waived</td>
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<td>BD Veritor - moderate</td>
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<td>BD Veritor - waived</td>
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<tr>
<td>Quidel QuickVue RSV - waived</td>
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<td>Quidel QuickVue RSV 10 Test</td>
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<td>Quidel Sofia / Sofia 2 - waived</td>
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Antigen(s) present: RSV.

### Specimen V-2

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<td>68</td>
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<td>BD Veritor - waived</td>
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<td>2</td>
</tr>
<tr>
<td>Quidel QuickVue RSV - waived</td>
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<td>10</td>
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<tr>
<td>Quidel QuickVue RSV 10 Test</td>
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<tr>
<td>Roche cobas Liat</td>
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Antigen(s) present: Influenza A.

### Specimen V-3

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<td>2</td>
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<td>Quidel Sofia / Sofia 2 - waived</td>
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Antigen(s) present: Influenza A.
### RSV ANTIGEN DETECTION

#### Specimen V-4

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<td>2</td>
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<td>Quidel Sofia / Sofia 2 - waived</td>
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Antigen(s) present: Influenza B.

#### Specimen V-5

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Antigen(s) present: No antigen present.

### INFLUENZA A/B ANTIGEN DETECTION

#### Specimen V-1

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<td>BioSign Flu A+B</td>
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<td>Cepheid GeneXpert - moderate</td>
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<td>Consult Diagnostics Influenza A &amp; B</td>
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<td>Quidel Sofia / Sofia 2 - waived</td>
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Antigen(s) present: RSV.
# Influenza A/B Antigen Detection

**Specimen V-2**

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<tr>
<td>BioSign Flu A+B</td>
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<tr>
<td>Consult Diagnostics Influenza A &amp; B</td>
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<tr>
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<td>-</td>
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Antigen(s) present: Influenza A.

**Specimen V-3**

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Antigen(s) present: Influenza A.

**Specimen V-4**

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Antigen(s) present: Influenza B.

**Specimen V-5**

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<td>6</td>
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Antigen(s) present: No antigen present.
## INFLUENZA A ANTIGEN DETECTION

### Specimen V-1

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<td>3</td>
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<td>Alere i Instrument - moderate</td>
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<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Alere i Instrument - waived</td>
<td>10</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Alere Influenza A&amp;B</td>
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</tr>
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Antigen(s) present: RSV.

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Antigen(s) present: Influenza A.
INFLUENZA A ANTIGEN DETECTION

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Antigen(s) present: Influenza A.

**Specimen V-4**

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Antigen(s) present: Influenza B.

**Specimen V-5**

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Antigen(s) present: No antigen present.
## INFLUENZA B ANTIGEN DETECTION

### Specimen V-1

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Antigen(s) present: RSV.

### Specimen V-2

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Antigen(s) present: Influenza A.
INFLUENZA B ANTIGEN DETECTION

Specimen V-3

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Antigen(s) present: Influenza A.

Specimen V-4

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Antigen(s) present: Influenza B.
### INFLUENZA B ANTIGEN DETECTION

**Specimen V-5**

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Antigen(s) present: No antigen present.

### CLOSTRIDIODES DIFFICILE ANTIGEN DETECTION

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Antigen(s) present: *Clostridioides difficile*.

**Specimen AG-2**

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<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Alere C. diff Quik Chek</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: No antigen present.

**Specimen AG-3**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Alere C. diff Quik Chek</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Clostridioides difficile*.

**Specimen AG-4**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Alere C. diff Quik Chek</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Clostridioides difficile* and Rotavirus.
CLOSTRIDIODES DIFFICILE TOXIN ANTIGEN DETECTION

**Specimen AG-5**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Alere C. diff Quik Chek</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: Rotavirus.

**ROTAVIRUS ANTIGEN DETECTION**

**Specimen AG-1**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Fisher HealthCare Sure-Vue</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Clostridioides difficile*.

**Specimen AG-2**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Fisher HealthCare Sure-Vue</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: No antigen present.

**Specimen AG-3**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Fisher HealthCare Sure-Vue</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Clostridioides difficile*.

**Specimen AG-4**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Fisher HealthCare Sure-Vue</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

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

**Specimen AG-5**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Fisher HealthCare Sure-Vue</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: Rotavirus.
### LEGIONELLA ANTIGEN DETECTION

#### Specimen L-1

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>12</td>
<td>12</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Specimen L-2

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>12</td>
<td>-</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Specimen L-3

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>12</td>
<td>-</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Specimen L-4

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>12</td>
<td>12</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Specimen L-5

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>12</td>
<td>-</td>
<td>12</td>
</tr>
</tbody>
</table>
STREPTOCOCCUS PNEUMONIAE ANTIGEN

Specimen SP-1

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>11</td>
<td>11</td>
<td>-</td>
</tr>
</tbody>
</table>

Specimen SP-2

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>11</td>
<td>-</td>
<td>11</td>
</tr>
</tbody>
</table>

Specimen SP-3

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>11</td>
<td>11</td>
<td>-</td>
</tr>
</tbody>
</table>

Specimen SP-4

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>11</td>
<td>-</td>
<td>11</td>
</tr>
</tbody>
</table>

Specimen SP-5

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binax NOW</td>
<td>11</td>
<td>-</td>
<td>11</td>
</tr>
</tbody>
</table>
### PARASITOLOGY

#### Specimen PA-1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giardia lamblia</td>
<td>1</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Parasite(s) present: *Giardia lamblia*.

#### Specimen PA-2

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dientamoeba fragilis</td>
<td>1</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Parasite(s) present: *Dientamoeba fragilis*.

#### Specimen PA-3

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>No parasite seen</td>
<td>1</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Parasite(s) present: No parasite seen but Pollen artifact seen.

#### Specimen PA-4

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taenia sp. Eggs</td>
<td>1</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Parasite(s) present: *Taenia sp. eggs*.

#### Specimen PA-5

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plasmodium sp.</td>
<td>1</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Parasite(s) present: *Plasmodium falciparum*. 
**DERMATOPHYTE CULTURE**

**Specimen DM-1**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatophyte present</td>
<td>8</td>
<td>100%</td>
<td>Acceptable</td>
</tr>
</tbody>
</table>

Organism(s) present: *Microsporum canis and Streptococcus mitis*.

**Specimen DM-2**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatophyte present</td>
<td>5</td>
<td>62.50%</td>
<td>Ungraded</td>
</tr>
<tr>
<td>Dermatophyte absent</td>
<td>3</td>
<td>37.50%</td>
<td></td>
</tr>
</tbody>
</table>

Organism(s) present: *Sporothrix schenckii*. This is an ungraded challenge due to less than 80% participant consensus.

**Specimen DM-3**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatophyte present</td>
<td>7</td>
<td>87.50%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Dermatophyte absent</td>
<td>1</td>
<td>12.50%</td>
<td></td>
</tr>
</tbody>
</table>

Organism(s) present: *Trichophyton tonsurans and Pantoea agglomerans*.

**Specimen DM-4**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatophyte absent</td>
<td>7</td>
<td>87.50%</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Dermatophytes present</td>
<td>1</td>
<td>12.50%</td>
<td></td>
</tr>
</tbody>
</table>

Organism(s) present: *Staphylococcus epidermidis*.

**Specimen DM-5**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Labs</th>
<th>Percent</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermatophyte present</td>
<td>6</td>
<td>75.00%</td>
<td>Ungraded</td>
</tr>
<tr>
<td>Dermatophyte absent</td>
<td>2</td>
<td>25.00%</td>
<td></td>
</tr>
</tbody>
</table>

Organism(s) present: *Trichophyton rubrum and Pseudomonas aeruginosa*. This is an ungraded challenge due to less than 80% participant consensus.
### BACTERIAL VAGINOSIS – OSOM - WAIVED

**Specimen BV-1**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>8</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Sekisui OSOM</td>
<td>8</td>
<td>-</td>
<td>8</td>
</tr>
</tbody>
</table>

Antigen(s) present: No antigen present.

**Specimen BV-2**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>8</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>Sekisui OSOM</td>
<td>8</td>
<td>8</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Gardnerella vaginalis*.

### TRICHOMONAS VAGINALIS – OSOM - WAIVED

**Specimen TR-1**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Sekisui OSOM</td>
<td>5</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Antigen(s) present: *Trichomonas vaginalis*.

**Specimen TR-2**

<table>
<thead>
<tr>
<th>Method</th>
<th>Labs</th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL METHODS</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Sekisui OSOM</td>
<td>5</td>
<td>-</td>
<td>5</td>
</tr>
</tbody>
</table>

Antigen(s) present: No antigen present.