

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

2 • 0 • 0 • 3



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

Microbiology
MLE – A2

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Microbiology

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2003 Evaluation Criteria

The evaluation criteria used in the 2003 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, HCFA 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.

| | | | |
|---|---------------|--|---------------|
| Bacterial Identification | 80% Consensus | Rotavirus Antigen Detection | 80% Consensus |
| Urine Presumptive Identification | 80% Consensus | RSV Antigen Detection | 80% Consensus |
| Colony Count | 80% Consensus | GC (EIA, DNA) | 80% Consensus |
| Parasite Identification | 80% Consensus | Antimicrobial Susceptibility Testing | 80% Consensus |
| Strep A Antigen Detection | 80% Consensus | Gram Stain | 80% Consensus |
| Affirm VP III Gardnerella Ag Detection | 80% Consensus | Gram Stain Morphology | Not Graded |
| Affirm VP III Candida Antigen Detection | 80% Consensus | Beta-lactamase Testing | Not Graded |
| Affirm VP III Trichomonas Ag Detection | 80% Consensus | C. Difficile Toxin/Antigen Detection | 80% Consensus |
| Chlamydia (EIA, DNA) | 80% Consensus | Dermatophyte Screen | 80% Consensus |
| Cryptosporidium Antigen Detection | 80% Consensus | Legionella Antigen Detection | 80% Consensus |
| Giardia lamblia Antigen Detection | 80% Consensus | Streptococcus pneumoniae Antigen Detection | 80% Consensus |
| Influenza A Antigen Detection | 80% Consensus | | |

THROAT CULTURE

Specimen TC-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Neg. Group A Strep | 233 | 98.7% | Acceptable |
| Pos. Group A Strep | 3 | 1.3% | |

Organism present in specimen TC-6: *Neisseria mucosa*.

Specimen TC-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------------|-------------|----------------|--------------------|
| Pos. Group A Strep | 144 | 60.5% | Acceptable |
| Presump. Pos. Group A Strep | 85 | 35.7% | Acceptable |
| Neg. Group A Strep | 9 | 3.8% | |

Organisms present in specimen TC-7: *Streptococcus pyogenes* and *Staphylococcus epidermidis*.

Specimen TC-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------------|-------------|----------------|--------------------|
| Neg. Group A Strep | 76 | 96.2% | Acceptable |
| Pos. Group A Strep | 2 | 2.5% | |
| Presump. Pos. Group A Strep | 1 | 1.3% | |

Organisms present in specimen TC-8: *Streptococcus pneumoniae* and *Staphylococcus epidermidis*.

Specimen TC-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------------|-------------|----------------|--------------------|
| Neg. Group A Strep | 64 | 95.5% | Acceptable |
| Presump. Pos. Group A Strep | 2 | 3.0% | |
| Pos. Group A Strep | 1 | 1.5% | |

Organism present in specimen TC-9: *Staphylococcus aureus*.

Specimen TC-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------------|-------------|----------------|--------------------|
| Pos. Group A Strep | 43 | 62.3% | Acceptable |
| Presump. Pos. Group A Strep | 23 | 33.3% | Acceptable |
| Neg. Group A Strep | 3 | 4.4% | |

Organism present in specimen TC-10: *Streptococcus pyogenes* and *Corynebacterium sp.*

STREP A ANTIGEN DETECTION

Specimen RS-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------------|-------------|-----------------|-----------------|
| All Methods | 747 | 11 | 736 |
| Abbott Signify Strep A-waived | 100 | 1 | 99 |
| Applied Biotech Signify | 13 | - | 13 |
| Applied Biotech SureStep | 3 | - | 3 |
| Applied Biotech SureStep II | 5 | - | 5 |
| BD Directigen 1-2-3 | 2 | - | 2 |
| BD LINK 2 | 6 | - | 6 |
| BD QTest | 31 | 1 | 30 |
| Beckman Coulter ICON DS | 14 | - | 14 |
| Beckman Coulter ICON Fx Strep A | 52 | - | 52 |
| BioStar Acceava Strep A Test | 69 | - | 69 |
| BioStar OIA | 1 | - | 1 |
| BioStar Strep A MAX OIA | 62 | 4 | 58 |
| DE Healthcare TruView | 4 | - | 4 |
| Fisher HealthCare Sure-Vue | 2 | - | 2 |
| Fisher Sure-Vue Strep A | 6 | - | 6 |
| Genzyme OSOM Ultra Strep A | 23 | - | 23 |
| Henry Schein One Step | 3 | - | 3 |
| LifeSign Status Strep A | 3 | - | 3 |
| Mainline Confirms | 4 | - | 4 |
| Mainline Confirms Strep A Dots | 2 | - | 2 |
| Meridian ImmunoCard | 2 | - | 2 |
| Polymedco Polystat Strep A (I) | 29 | 1 | 28 |
| Polymedco Polystat Strep A (II) | 21 | - | 21 |
| Quidel Cards QS | 9 | - | 9 |
| Quidel QuickVue | 35 | 1 | 34 |
| Quidel QuickVue Dipstick Strep | 12 | 1 | 11 |
| Quidel QuickVue Flex | 4 | - | 4 |
| Quidel QuickVue In-Line | 89 | 2 | 87 |
| Quidel QuickVue+ | 81 | - | 81 |
| Stanbio QuStick Strep A | 1 | - | 1 |
| Wampole Clearview | 2 | - | 2 |
| Wyntek OSOM | 6 | - | 6 |
| Wyntek OSOM Ultra Strep A | 17 | - | 17 |

Specimen RS-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> | <u>Strength of Reaction</u> | | |
|---------------------------------|-------------|-----------------|-----------------|-----------------------------|-----------------|-------------|
| | | | | <u>Strong</u> | <u>Moderate</u> | <u>Weak</u> |
| All Methods | 706 | 692 | 14 | 428 | 172 | 40 |
| Abbott Signify Strep A-waived | 92 | 90 | 2 | 68 | 16 | 2 |
| Applied Biotech Signify | 10 | 10 | - | 7 | 1 | - |
| Applied Biotech SureStep | 3 | 3 | - | 1 | 2 | - |
| Applied Biotech SureStep II | 5 | 5 | - | 1 | 3 | 1 |
| BD Directigen 1-2-3 | 2 | 2 | - | 1 | - | 1 |
| BD LINK 2 | 6 | 6 | - | 1 | 3 | 2 |
| BD QTest | 26 | 26 | - | 5 | 11 | 9 |
| Beckman Coulter ICON DS | 13 | 13 | - | 3 | 6 | 4 |
| Beckman Coulter ICON Fx Strep A | 52 | 52 | - | 30 | 17 | 2 |
| BioStar Acceava Strep A Test | 68 | 68 | - | 44 | 19 | - |

STREP A ANTIGEN DETECTION

Specimen RS-7 (cont'd)

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> | <u>Strength of Reaction</u> | | |
|---------------------------------|-------------|-----------------|-----------------|-----------------------------|-----------------|-------------|
| | | | | <u>Strong</u> | <u>Moderate</u> | <u>Weak</u> |
| BioStar OIA | 1 | 1 | - | - | - | - |
| BioStar Strep A MAX OIA | 61 | 60 | 1 | 48 | 11 | - |
| DE Healthcare TruView | 4 | 4 | - | 2 | 1 | - |
| Fisher HealthCare Sure-Vue | 2 | 2 | - | 1 | 1 | - |
| Fisher Sure-Vue Strep A | 4 | 4 | - | 1 | 1 | 1 |
| Genzyme OSOM Ultra Strep A | 20 | 20 | - | 11 | 5 | - |
| Henry Schein One Step | 3 | 3 | - | 2 | - | - |
| LifeSign Status AccuStrep A | 3 | 3 | - | - | 2 | 1 |
| Mainline Confirms | 2 | 2 | - | - | 1 | - |
| Mainline Confirms Strep A Dots | 2 | 2 | - | - | 1 | 1 |
| Meridian ImmunoCard | 2 | 2 | - | - | 2 | - |
| Polymedco Polystat Strep A (I) | 29 | 29 | - | 18 | 9 | 2 |
| Polymedco Polystat Strep A (II) | 19 | 19 | - | 3 | 8 | 7 |
| Quidel Cards QS | 8 | 8 | - | 6 | 1 | - |
| Quidel QuickVue | 33 | 32 | 1 | 26 | 2 | 1 |
| Quidel QuickVue Dipstick Strep | 12 | 12 | - | 7 | 3 | - |
| Quidel QuickVue Flex | 4 | 4 | - | 2 | 1 | - |
| Quidel QuickVue In-Line | 88 | 79 | 9 | 54 | 17 | 4 |
| Quidel QuickVue+ | 80 | 80 | - | 58 | 17 | - |
| Stanbio QuStick Strep A | 1 | 1 | - | - | - | 1 |
| Wampole Clearview | 1 | 1 | - | - | 1 | - |
| Wyntek OSOM | 5 | 5 | - | 5 | - | - |
| Wyntek OSOM Ultra Strep A | 17 | 17 | - | 10 | 2 | 1 |

Specimen RS-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> | <u>Strength of Reaction</u> | | |
|---------------------------------|-------------|-----------------|-----------------|-----------------------------|-----------------|-------------|
| | | | | <u>Strong</u> | <u>Moderate</u> | <u>Weak</u> |
| All Methods | 462 | 455 | 7 | 280 | 113 | 30 |
| Abbott Signify Strep A-waived | 44 | 44 | - | 36 | 5 | 1 |
| Applied Biotech Signify | 10 | 10 | - | 4 | 5 | - |
| Applied Biotech SureStep | 2 | 2 | - | 2 | - | - |
| Applied Biotech SureStep II | 4 | 4 | - | - | 4 | - |
| BD Directigen 1-2-3 | 2 | 2 | - | 1 | - | 1 |
| BD LINK 2 | 1 | 1 | - | - | - | 1 |
| BD Qtest | 26 | 24 | 2 | 4 | 14 | 5 |
| Beckman Coulter ICON DS | 8 | 8 | - | 3 | 2 | 3 |
| Beckman Coulter ICON Fx Strep A | 21 | 20 | 1 | 11 | 9 | 1 |
| BioStar Acceava Strep A Test | 25 | 25 | - | 19 | 2 | - |
| BioStar OIA | 1 | 1 | - | - | - | - |
| BioStar Strep A MAX OIA | 60 | 60 | - | 44 | 13 | 2 |
| DE Healthcare Sure-Vue | 1 | 1 | - | - | - | - |
| Fisher HealthCare Sure-Vue | 2 | 2 | - | 1 | - | 1 |
| Fisher Sure-Vue Strep A | 1 | 1 | - | - | - | 1 |
| Genzyme OSOM Ultra Strep A | 11 | 11 | - | 7 | 1 | - |
| Henry Schein One Step | 3 | 3 | - | 1 | 1 | - |
| LifeSign Status Strep A | 3 | 3 | - | 1 | 1 | 1 |
| Mainline Confirms | 2 | 2 | - | 1 | - | - |
| Mainline Confirms Strep A Dots | 2 | 2 | - | - | 2 | - |
| Meridian ImmunoCard | 2 | 2 | - | 1 | - | 1 |
| Polymedco Polystat Strep A (I) | 22 | 22 | - | 15 | 5 | 2 |
| Polymedco Polystat Strep A (II) | 10 | 9 | 1 | 2 | 3 | 4 |

STREP A ANTIGEN DETECTION

Specimen RS-8 (cont'd)

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> | <u>Strength of Reaction</u> | | |
|--------------------------------|-------------|-----------------|-----------------|-----------------------------|-----------------|-------------|
| | | | | <u>Strong</u> | <u>Moderate</u> | <u>Weak</u> |
| Quidel Cards QS | 8 | 8 | - | 5 | 1 | 1 |
| Quidel QuickVue | 30 | 30 | - | 16 | 10 | 1 |
| Quidel QuickVue Dipstick Strep | 10 | 9 | 1 | 7 | 1 | - |
| Quidel QuickVue Flex | 3 | 3 | - | 2 | - | - |
| Quidel QuickVue In-Line | 37 | 35 | 2 | 25 | 9 | 1 |
| Quidel QuickVue+ | 79 | 79 | - | 55 | 18 | 1 |
| Stanbio QuStick Strep A | 1 | 1 | - | - | - | 1 |
| Wyntek OSOM | 4 | 4 | - | 4 | - | - |
| Wyntek OSOM Ultra Strep A | 9 | 9 | - | 4 | 3 | - |

Specimen RS-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------------|-------------|-----------------|-----------------|
| All Methods | 388 | 3 | 385 |
| Abbott Signify Strep A-waived | 36 | - | 36 |
| Applied Biotech Signify | 7 | - | 7 |
| Applied Biotech SureStep | 1 | - | 1 |
| Applied Biotech SureStep II | 4 | - | 4 |
| BD Directigen 1-2-3 | 2 | - | 2 |
| BD LINK 2 | 1 | - | 1 |
| BD Qtest | 21 | - | 21 |
| Beckman Coulter ICON DS | 8 | - | 8 |
| Beckman Coulter ICON Fx Strep A | 17 | - | 17 |
| BioStar Acceava Strep A Test | 18 | - | 18 |
| BioStar OIA | 1 | - | 1 |
| BioStar Strep A MAX OIA | 58 | 1 | 57 |
| DE Healthcare TruView | 1 | - | 1 |
| Fisher HealthCare Sure-Vue | 1 | - | 1 |
| Fisher Sure-Vue Strep A | 1 | - | 1 |
| Genzyme OSOM Ultra Strep A | 7 | - | 7 |
| Henry Schein One Step | 3 | - | 3 |
| LifeSign Status AccuStrep A | 2 | - | 2 |
| Mainline Confirms | 1 | - | 1 |
| Mainline ConfirmsStrep A Dots | 2 | - | 2 |
| Meridian ImmunoCard | 2 | - | 2 |
| Polymedco Polystat Strep A (I) | 22 | - | 22 |
| Polymedco Polystat Strep A (II) | 6 | - | 6 |
| Quidel Cards QS | 7 | - | 7 |
| Quidel QuickVue | 25 | 1 | 24 |
| Quidel QuickVue Dipstick Strep | 9 | - | 9 |
| Quidel QuickVue Flex | 3 | - | 3 |
| Quidel QuickVue In-Line | 34 | - | 34 |
| Quidel QuickVue+ | 66 | - | 66 |
| Stanbio QuStick Strep A | 1 | - | 1 |
| Wyntek OSOM | 3 | - | 3 |
| Wyntek OSOM Ultra Strep A | 6 | - | 6 |

STREP A ANTIGEN DETECTION

Specimen RS-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> | <u>Strength of Reaction</u> | | |
|---------------------------------|-------------|-----------------|-----------------|-----------------------------|-----------------|-------------|
| | | | | <u>Strong</u> | <u>Moderate</u> | <u>Weak</u> |
| All Methods | 388 | 385 | 3 | 216 | 127 | 18 |
| Abbott Signify Strep A-waived | 36 | 36 | - | 24 | 10 | - |
| Applied Biotech Signify | 7 | 7 | - | 3 | 1 | 2 |
| Applied Biotech SureStep | 1 | 1 | - | - | 1 | - |
| Applied Biotech SureStep II | 4 | 4 | - | - | 3 | 1 |
| BD Directigen 1-2-3 | 2 | 2 | - | - | 2 | - |
| BD LINK 2 | 1 | 1 | - | - | - | 1 |
| BD Qtest | 21 | 20 | 1 | 9 | 11 | - |
| Beckman Coulter ICON DS | 8 | 8 | - | 3 | 3 | 2 |
| Beckman Coulter ICON Fx Strep A | 17 | 17 | - | 6 | 11 | - |
| BioStar Acceava Strep A Test | 18 | 18 | - | 13 | 1 | - |
| BioStar OIA | 1 | 1 | - | - | - | - |
| BioStar Strep A MAX OIA | 58 | 58 | - | 45 | 11 | 1 |
| DE Healthcare TruView | 1 | 1 | - | - | - | - |
| Fisher HealthCare Sure-Vue | 1 | 1 | - | - | 1 | - |
| Fisher Sure-Vue Strep A | 1 | 1 | - | - | - | 1 |
| Genzyme OSOM Ultra Strep A | 7 | 7 | - | 3 | 2 | - |
| Henry Schein One Step | 3 | 3 | - | 1 | 1 | - |
| LifeSign Status Strep A | 2 | 2 | - | 1 | - | 1 |
| Mainline Confirms | 1 | 1 | - | - | 1 | - |
| Mainline Confirms Strep A Dots | 2 | 2 | - | 1 | 1 | - |
| Meridian ImmunoCard | 2 | 2 | - | - | 2 | - |
| Polymedco Polystat Strep A (I) | 22 | 22 | - | 12 | 10 | - |
| Polymedco Polystat Strep A (II) | 6 | 6 | - | 1 | 3 | 2 |
| Quidel Cards QS | 7 | 7 | - | 5 | 1 | - |
| Quidel QuickVue | 25 | 25 | - | 14 | 8 | 1 |
| Quidel QuickVue Dipstick Strep | 9 | 9 | - | 6 | - | 3 |
| Quidel QuickVue Flex | 3 | 3 | - | 2 | - | - |
| Quidel QuickVue In-Line | 34 | 32 | 2 | 18 | 13 | 1 |
| Quidel QuickVue+ | 66 | 66 | - | 41 | 21 | 1 |
| Stanbio QuStick Strep A | 1 | 1 | - | - | 1 | - |
| Wyntek OSOM | 3 | 3 | - | 2 | 1 | - |
| Wyntek OSOM Ultra Strep A | 6 | 6 | - | 3 | 2 | - |

GENERAL BACTERIOLOGY

Specimen UC-6 – Urine Culture

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Escherichia coli | 4 | 100% | Acceptable |
| <u>Gram Stain</u> | | | |
| Gram negative | 4 | 100% | Acceptable |
| <u>Gram Stain Morphology</u> | | | |
| Rods/bacilli | 4 | 100% | |

Organism present in specimen UC-6: *Escherichia coli*.

GENERAL BACTERIOLOGY

Specimen TC-6 – Throat Culture

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------|-------------|----------------|--------------------|
| Neisseria mucosa | 1 | 33.3% | Not graded |
| Staphylococcus sp. | 1 | 33.3% | |
| No enteric pathogens isolated | 1 | 33.3% | |

Organism present in specimen TC-6: *Neisseria mucosa*. This is an ungraded challenge due to less than 80% participant consensus.

Specimen BA-4 - Stool Culture

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------|-------------|----------------|--------------------|
| No enteric pathogens isolated | 3 | 50.0% | Acceptable |
| Enterococcus (Strep) faecalis | 1 | 16.7% | Acceptable |
| Klebsiella pneumoniae | 1 | 16.7% | Acceptable |
| Staphylococcus aureus | 1 | 16.7% | |

Organisms present in specimen BA-4: *Enterococcus faecalis* and *Klebsiella pneumoniae*.

Specimen BA-5 – Wound Culture

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|----------------------------|-------------|----------------|--------------------|
| Proteus mirabilis | 3 | 60.0% | Acceptable |
| Proteus sp. | 1 | 20.0% | Acceptable |
| Staphylococcus epidermidis | 1 | 20.0% | Acceptable |

Organisms present in specimen BA-5: *Proteus mirabilis* and *Staphylococcus epidermidis*.

Specimen BA-6 – Blood Culture

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|------------------------|-------------|----------------|--------------------|
| Pseudomonas aeruginosa | 4 | 100% | Acceptable |

Organism present in specimen BA-6: *Pseudomonas aeruginosa*.

URINE CULTURE

Specimen UC-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Escherichia coli | 78 | 44.3% | Acceptable |
| Growth, referred for identification | 31 | 17.6% | Acceptable |
| Presump. Gram negative | 26 | 14.8% | Acceptable |
| Presump. Escherichia coli | 24 | 13.6% | Acceptable |
| Gram negative bacilli | 16 | 9.1% | Acceptable |

Gram Stain

| | | | |
|---------------|----|-------|------------|
| Gram negative | 69 | 98.6% | Acceptable |
| Gram positive | 1 | 1.4% | |

URINE CULTURE

Specimen UC-6 (cont'd)

| <u>Gram Stain Morphology</u> | <u>Labs</u> | <u>Percent</u> |
|------------------------------|-------------|----------------|
| Rods/bacilli | 67 | 98.5% |
| Cocci | 1 | 1.5% |

Organism present in specimen UC-6: *Escherichia coli*.

Specimen UC-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Enterococcus sp. | 45 | 25.7% | Acceptable |
| Growth, referred for identification | 44 | 25.1% | Acceptable |
| Presump. Gram positive | 26 | 14.9% | Acceptable |
| Presump. Enterococcus sp. | 11 | 6.3% | Acceptable |
| Gram positive cocci | 20 | 11.4% | Acceptable |
| Enterococcus (Strep) faecalis | 10 | 5.7% | Acceptable |
| Streptococcus non-hemolytic | 2 | 1.1% | Acceptable |
| Presumptive Streptococcus sp. | 2 | 1.1% | Acceptable |
| Strep. Grp. D – enterococcus | 1 | 0.6% | Acceptable |

Organisms present in specimen UC-7: *Enterococcus faecalis* and *Lactobacillus casei*.

Specimen UC-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Growth, referred for identification | 33 | 29.0% | Acceptable |
| Presump. Gram positive | 26 | 22.8% | Acceptable |
| Streptococcus agalactiae | 14 | 12.3% | Acceptable |
| Gram positive cocci | 11 | 9.7% | Acceptable |
| Strep – beta hemo; not Grp A | 4 | 3.5% | Acceptable |
| Presumptive Streptococcus sp. | 3 | 2.6% | Acceptable |
| Corynebacterium sp. | 2 | 1.8% | Acceptable |
| Contaminated specimen | 7 | 6.1% | |

Organisms present in specimen UC-8: *Streptococcus sp. Group B* and *Corynebacterium sp.*

Specimen UC-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Gram negative | 20 | 31.8% | Acceptable |
| Growth, referred for identification | 14 | 22.2% | Acceptable |
| Proteus vulgaris | 10 | 15.9% | Acceptable |
| Gram negative bacilli | 5 | 7.9% | Acceptable |
| Proteus sp. | 3 | 4.8% | Acceptable |
| Presump. Gram positive | 3 | 4.8% | Acceptable |
| Presump. Proteus sp. | 2 | 3.2% | Acceptable |

Organisms present in specimen UC-9: *Proteus vulgaris* and *Lactobacillus casei*.

URINE CULTURE

Specimen UC-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Gram negative | 17 | 27.0% | Acceptable |
| Growth, referred for identification | 15 | 23.8% | Acceptable |
| <i>Pseudomonas aeruginosa</i> | 11 | 17.5% | Acceptable |
| <i>Pseudomonas</i> sp. | 8 | 12.7% | Acceptable |
| Presump. <i>Pseudomonas</i> sp. | 7 | 11.1% | Acceptable |
| Gram negative bacilli | 4 | 6.4% | Acceptable |

Organism present in specimen UC-10: *Pseudomonas aeruginosa*.

ANTIMICROBIAL SUSCEPTIBILITY TESTING

Specimen UC-6, CC-6 (SUS-6)

| <u>Antimicrobial</u> | <u>-----Agar Diffusion-----</u> | | | | <u>-----MIC-----</u> | | | | <u>Acceptable (%)</u> |
|-------------------------|-------------------------------------|----------|----------|----------|-------------------------------------|----------|----------|----------|-------------------------|
| | <u>Interpretative category data</u> | | | | <u>Interpretative category data</u> | | | | |
| | <u>Labs</u> | <u>S</u> | <u>I</u> | <u>R</u> | <u>Labs</u> | <u>S</u> | <u>I</u> | <u>R</u> | |
| Amikacin | 1 | 1 | - | - | 3 | 3 | - | - | 100% |
| Amoxicillin/Clavulanate | 17 | 17 | - | - | 9 | 9 | - | - | 100% |
| Ampicillin | 91 | 87 | 2 | 2 | 16 | 16 | - | - | 94.8% |
| Ampicillin/Sulbactam | 1 | 1 | - | - | 2 | 2 | - | - | 100% |
| Carbencillin | 40 | 38 | 1 | 1 | 3 | 2 | - | 1 | 92.9% |
| Cefaclor | 4 | 4 | - | - | - | - | - | - | 100% |
| Cefazolin | 9 | 9 | - | - | 6 | 6 | - | - | 100% |
| Cefixime | 10 | 10 | - | - | 1 | 1 | - | - | 100% |
| Ceftazidime | 1 | 1 | - | - | 3 | 3 | - | - | 100% |
| Ceftriaxone | 8 | 8 | - | - | 9 | 9 | - | - | 100% |
| Cefuroxime | 2 | 2 | - | - | 4 | 4 | - | - | 100% |
| Cephalothin | 90 | 69 | 19 | 2 | 16 | 11 | 4 | 1 | Not graded ¹ |
| Cinoxacin | 3 | 3 | - | - | - | - | - | - | 100% |
| Ciprofloxacin | 87 | 87 | - | - | 15 | 15 | - | - | 100% |
| Doxycycline | 6 | 6 | - | - | - | - | - | - | 92.3% |
| Fosfomycin | 1 | 1 | - | - | - | - | - | - | 100% |
| Gentamicin | 49 | 49 | - | - | 8 | 8 | - | - | 100% |
| Imipenem | - | - | - | - | 3 | 3 | - | - | 100% |
| Levofloxacin | 12 | 12 | - | - | 11 | 11 | - | - | 100% |
| Lomefloxacin | 1 | 1 | - | - | 3 | 3 | - | - | 100% |
| Nalidixic Acid | 4 | 4 | - | - | 2 | 2 | - | - | 100% |
| Nitrofurantoin | 100 | 100 | - | - | 19 | 18 | - | 1 | 99.4% |
| Norfloxacin | 37 | 37 | - | - | 6 | 6 | - | - | 100% |
| Ofloxacin | 21 | 21 | - | - | 3 | 3 | - | - | 100% |
| Piperacillin | - | - | - | - | 1 | 1 | - | - | 100% |
| Sulfamethoxazole | 4 | 4 | - | - | - | - | - | - | 100% |
| Sulfisoxazole | 6 | 5 | 1 | - | 1 | 1 | - | - | Not graded ¹ |
| Tetracycline | 47 | 46 | 1 | - | 8 | 8 | - | - | 97.7% |
| Ticarcillin | 1 | 1 | - | - | 1 | 1 | - | - | 100% |
| Ticarcillin/Clavulanate | - | - | - | - | 2 | 2 | - | - | 100% |
| Tobramycin | 4 | 4 | - | - | 3 | 3 | - | - | 100% |
| Trimethoprim | 12 | 12 | - | - | 5 | 5 | - | - | 100% |

¹ This is an ungraded challenge due to less than 80% participant consensus.

ANTIMICROBIAL SUSCEPTIBILITY TESTING

Specimen UC-6, CC-6 (SUS-6) (cont'd)

| <u>Antimicrobial</u> | <u>-----Agar Diffusion-----</u> <u>Interpretative category data</u> | | | | <u>-----MIC-----</u> <u>Interpretative category data</u> | | | | <u>Acceptable (%)</u> |
|-------------------------------|--|----------|----------|----------|---|----------|----------|----------|-----------------------|
| | <u>Labs</u> | <u>S</u> | <u>I</u> | <u>R</u> | <u>Labs</u> | <u>S</u> | <u>I</u> | <u>R</u> | |
| Trimethoprim/Sulfamethoxazole | 95 | 95 | - | - | 15 | 15 | - | - | 100% |

Organism present in specimen UC-6, CC-6 (SUS-6): *Escherichia coli*.

GC CULTURE

Specimen GC-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|--------------------------------------|-------------|----------------|--------------------|
| Neg. for <i>N. gonorrhoeae</i> | 51 | 91.1% | Acceptable |
| Growth select. media, referred | 2 | 3.6% | Acceptable |
| No growth | 1 | 1.8% | Acceptable |
| Presp. <i>N. gonorrhoeae</i> , refer | 2 | 3.6% | |

Gram Stain

| | | | |
|---------------|----|-------|------------|
| Gram positive | 24 | 77.4% | Not graded |
| Gram negative | 7 | 22.6% | |

This is an ungraded challenge due to less than 80% participant consensus.

Gram Stain Morphology

| | | |
|-----------------|----|-------|
| Cocci | 18 | 60.0% |
| Cocci in chains | 5 | 16.7% |
| Cocci in pairs | 2 | 6.7% |
| Cocco-bacilli | 2 | 6.7% |
| Diplococci | 2 | 6.7% |
| Rods/bacilli | 1 | 3.3% |

Organism present in specimen GC-6: *Enterococcus faecalis*.

Specimen GC-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|--------------------------------------|-------------|----------------|--------------------|
| Presp. <i>N. gonorrhoeae</i> , refer | 15 | 68.2% | Acceptable |
| Pos. for <i>N. gonorrhoeae</i> | 6 | 27.3% | Acceptable |
| Neg. for <i>N. gonorrhoeae</i> | 1 | 4.6% | |

Beta-lactamase Testing

| | | |
|----------|---|-------|
| Negative | 2 | 66.7% |
| Positive | 1 | 33.3% |

Organisms present in specimen GC-7: *Neisseria gonorrhoeae* and *Corynebacterium sp.*

GC CULTURE

Specimen GC-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------|-------------|----------------|--------------------|
| No growth | 15 | 75.0% | Acceptable |
| Neg. for N. gonorrhoeae | 5 | 25.0% | Acceptable |

Organisms present in specimen GC-8: *Gardnerella vaginalis* and *Staphylococcus epidermidis*.

Specimen GC-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------|-------------|----------------|--------------------|
| No growth | 15 | 75.0% | Acceptable |
| Neg. for N. gonorrhoeae | 5 | 25.0% | Acceptable |

Organism present in specimen GC-9: *Streptococcus sp. Group B*.

Specimen GC-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|------------------------------|-------------|----------------|--------------------|
| Presp. N. gonorrhoeae, refer | 14 | 70.0% | Acceptable |
| Pos. for N. gonorrhoeae | 5 | 25.0% | Acceptable |
| Neg. for N. gonorrhoeae | 1 | 5.0% | |

Beta-lactamase Testing

| | | |
|----------|---|-------|
| Positive | 2 | 50.0% |
| Negative | 2 | 50.0% |

Organisms present in specimen GC-10: *Neisseria gonorrhoeae* and *Lactobacillus casei*.

COLONY COUNT

Specimen CC-6

| <u>Method</u> | <u>Labs</u> | <u>No growth</u> | <u><10,000 organisms/mL</u> | <u>10,000-100,000 organisms/mL</u> | <u>>100,000 organisms/mL</u> |
|--------------------------|-------------|------------------|------------------------------------|--|-------------------------------------|
| All Methods | 136 | 3 | 1 | 9 | 123 |
| Bactercult | 2 | - | - | - | 2 |
| Bacti-Star | 1 | - | - | - | 1 |
| Bulls Eye | 6 | - | 1 | 1 | 4 |
| Calibrated Loop | 35 | - | - | - | 35 |
| HealthLink | 8 | - | - | 1 | 7 |
| Med Ox Dip-Paddle/Slide | 1 | - | - | 1 | - |
| Troy Bacti- Urine, Plate | 2 | 1 | - | - | 1 |
| Uri-Check | 18 | 1 | - | - | 17 |
| Uri-Kit | 1 | - | - | - | 1 |
| Uri-Three | 1 | - | - | - | 1 |
| Uricult | 55 | 1 | - | 5 | 49 |

COLONY COUNT

Identification- Specimen CC-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Escherichia coli | 25 | 42.4% | Acceptable |
| Presump. Gram negative | 11 | 18.6% | Acceptable |
| Growth, referred for identification | 8 | 13.6% | Acceptable |
| Escherichia coli | 4 | 6.8% | Acceptable |
| Presump. Enterobacter sp. | 7 | 11.9% | |

Gram Stain

| | | | |
|---------------|---|-------|------------|
| Gram negative | 6 | 85.7% | Acceptable |
| Gram positive | 1 | 14.3% | |

Gram Stain Morphology

| | | | |
|-----------------|---|-------|--|
| Rods/bacilli | 8 | 88.9% | |
| Cocci in chains | 1 | 11.1% | |

Organism present in specimen CC-6: *Escherichia coli*.

Specimen CC-7

| <u>Method</u> | <u>Labs</u> | <u>No growth</u> | <u><10,000 organisms/mL</u> | <u>10,000-100,000 organisms/mL</u> | <u>>100,000 organisms/mL</u> |
|--------------------------|-------------|------------------|--------------------------------|------------------------------------|---------------------------------|
| All Methods | 136 | 4 | 15 | 52 | 65 |
| Bactercult | 2 | - | - | - | 2 |
| Bacti-Star | 1 | - | - | - | 1 |
| Bulls Eye | 6 | - | 1 | 4 | 1 |
| Calibrated Loop | 35 | - | - | 1 | 34 |
| HealthLink | 8 | - | 2 | 4 | 2 |
| Med Ox Dip-Paddle/Slide | 1 | - | - | 1 | - |
| Troy Bacti- Urine, Plate | 2 | - | 1 | - | 1 |
| Uri-Check | 18 | - | 3 | 11 | 4 |
| Uri-Kit | 1 | - | - | 1 | - |
| Uri-Three | 1 | - | - | 1 | - |
| Uricult | 55 | 4 | 8 | 27 | 16 |

Identification- Specimen CC-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Enterococcus sp. | 22 | 38.6% | Acceptable |
| Presump. Gram positive | 18 | 31.6% | Acceptable |
| Growth, referred for identification | 8 | 14.0% | Acceptable |
| Enterococcus sp. | 2 | 3.5% | Acceptable |
| Enterococcus (Strep) faecalis | 1 | 1.8% | Acceptable |
| Gram positive cocci | 1 | 1.8% | Acceptable |
| Strep. Grp. D – enterococcus | 1 | 1.8% | Acceptable |

Organisms present in specimen CC-7: *Enterococcus faecalis* and *Lactobacillus casei*.

COLONY COUNT

Identification- Specimen CC-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Gram positive | 10 | 25.0% | Not graded |
| Presumptive Streptococcus sp. | 7 | 17.5% | |
| Growth, referred for identification | 6 | 15.0% | |
| Streptococcus agalactiae | 1 | 2.5% | |
| No growth (sterile) | 12 | 30.0% | |

Organisms present in specimen CC-8: *Streptococcus sp. Group B* and *Corynebacterium sp.* This is an ungraded challenge due to less than 80% participant consensus.

Identification- Specimen CC-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Gram negative | 11 | 27.5% | Acceptable |
| Growth, referred for identification | 9 | 22.5% | Acceptable |
| Presump. Proteus sp. | 7 | 17.5% | Acceptable |
| Proteus vulgaris | 2 | 5.0% | Acceptable |
| Presump. Gram positive | 2 | 5.0% | Acceptable |

Organisms present in specimen CC-9: *Proteus vulgaris* and *Lactobacillus casei*.

Identification- Specimen CC-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-------------------------------------|-------------|----------------|--------------------|
| Presump. Pseudomonas sp. | 18 | 45.0% | Acceptable |
| Growth, referred for identification | 7 | 17.5% | Acceptable |
| Presump. Gram negative | 7 | 17.5% | Acceptable |
| Pseudomonas aeruginosa | 4 | 10.0% | Acceptable |
| Pseudomonas sp. | 1 | 2.5% | Acceptable |
| Bacturcult Group III | 1 | 2.5% | Acceptable |

Organism present in specimen CC-10: *Pseudomonas aeruginosa*.

DERMATOPHYTE SCREEN

Specimen DM-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Dermatophyte present | 13 | 65.0% | Not Graded |
| Dermatophyte absent | 7 | 35.0% | |

Organisms present in specimen DM-6: *Epidermophyton floccosum* and *Staphylococcys epidermidis*. This is ungraded challenge due to less than 80% participant consensus.

Specimen DM-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Dermatophyte present | 20 | 100% | Acceptable |
| Dermatophyte absent | - | - | |

Organisms present in specimen DM-7: *Microsporium gypseum* and *Staphylococcus epidermidis*.

GRAM STAIN

Specimen GS-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Gram negative | 67 | 91.8% | Acceptable |
| Gram positive | 6 | 8.2% | |

Gram Stain Morphology

| | | |
|----------------|----|-------|
| Diplococci | 55 | 79.7% |
| Cocci in pairs | 8 | 11.6% |
| Cocci | 6 | 8.7% |

Organism present in specimen GS-6: *Branhamella catarrhalis*.

Specimen GS-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Gram positive | 66 | 90.4% | Acceptable |
| Gram negative | 7 | 9.6% | |

Gram Stain Morphology

| | | |
|-----------------|----|-------|
| Cocci in chains | 67 | 95.7% |
| Rods/bacilli | 2 | 2.9% |
| Cocci | 1 | 1.4% |

Organism present in specimen GS-7: *Streptococcus pneumoniae*.

Specimen GS-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Gram positive | 71 | 97.3% | Acceptable |
| Gram negative | 2 | 2.7% | |

Gram Stain Morphology

| | | |
|-----------------|----|-------|
| Cocci | 57 | 85.1% |
| Cocci in pairs | 8 | 11.9% |
| Cocci in chains | 2 | 3.0% |

Organism present in specimen GS-8: *Staphylococcus aureus*.

GRAM STAIN

Specimen GS-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Gram positive | 72 | 98.6% | Acceptable |
| Gram negative | 1 | 1.4% | |

Gram Stain Morphology

| | | |
|----------------|----|-------|
| Rods/bacilli | 65 | 92.9% |
| Cocco-bacilli | 4 | 5.7% |
| Cocci in pairs | 1 | 1.4% |

Organism present in specimen GS-9: *Bacillus species*.

Specimen GS-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Gram negative | 72 | 98.6% | Acceptable |
| Gram positive | 1 | 1.4% | |

Gram Stain Morphology

| | | |
|-----------------|----|-------|
| Rods/bacilli | 66 | 95.7% |
| Diplococci | 2 | 2.9% |
| Cocci in chains | 1 | 1.5% |

Organism present in specimen GS-10: *Pseudomonas aeruginosa*.

CHLAMYDIA (ANTIGEN DETECTION)

Specimen CY-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 31 | 29 | 2 |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | 1 | - |
| Beckman (Sanofi) ACCESS | 1 | 1 | - |
| bioMerieux Vitek, Mini Vidas | 1 | 1 | - |
| BioStar OIA | 3 | 3 | - |
| Gen-Probe | 7 | 7 | - |
| Quidel QuickVue | 11 | 11 | - |
| Syva Micro Trak II, XL | 1 | 1 | - |
| Wampole Clearview | 2 | - | 2 |

Organism present in specimen CY-6: *Chlamydia trachomatis*.

CHLAMYDIA (ANTIGEN DETECTION)

Specimen CY-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 31 | 3 | 28 |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | - | 1 |
| Beckman (Sanofi) ACCESS | 1 | - | 1 |
| bioMerieux Vitek, Mini Vidas | 1 | - | 1 |
| BioStar OIA | 3 | - | 3 |
| Gen-Probe | 7 | - | 7 |
| Quidel Quick Vue | 11 | - | 11 |
| Syva Micro Trak II, XL | 1 | - | 1 |
| Wampole Clearview | 2 | - | 2 |

Organism present in specimen CY-7: *Neisseria gonorrhoeae*.

Specimen CY-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 25 | 1 | 24 |
| Abbott LCx | 2 | - | 2 |
| BD ProbeTec | 1 | - | 1 |
| Beckman (Sanofi) ACCESS | 1 | - | 1 |
| BioMerieux Vitek, Mini Vidas | 1 | 1 | - |
| BioStar OIA | 2 | - | 2 |
| Gen-Probe | 7 | - | 7 |
| Quidel Quick Vue | 8 | - | 8 |
| Syva Micro Trak II, XL | 1 | - | 1 |
| Wampole Clearview | 1 | - | 1 |

Organism present in specimen CY-8: *Neisseria gonorrhoeae*.

Specimen CY-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 25 | 24 | 1 |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | 1 | - |
| Beckman (Sanofi) ACCESS | 1 | 1 | - |
| bioMerieux Vitek, Mini Vidas | 1 | 1 | - |
| BioStar OIA | 2 | 2 | - |
| Gen-Probe | 7 | 7 | - |
| Quidel QuickVue | 8 | 8 | - |
| Syva Micro Trak II, XL | 1 | 1 | - |
| Wampole Clearview | 1 | - | 1 |

Organism present in specimen CY-9: *Chlamydia trachomatis*.

CHLAMYDIA (ANTIGEN DETECTION)

Specimen CY-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 25 | 23 | 2 |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | 1 | - |
| Beckman (Sanofi) ACCESS | 1 | 1 | - |
| bioMerieux Vitek, Mini Vidas | 1 | - | 1 |
| BioStar OIA | 2 | 2 | - |
| Gen-Probe | 7 | 7 | - |
| Quidel QuickVue | 8 | 8 | - |
| Syva Micro Trak II, XL | 1 | 1 | - |
| Wampole Clearview | 1 | - | 1 |

Organism present in specimen CY-10: *Chlamydia trachomatis*.

GC (ANTIGEN DETECTION)

Specimen CY-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 10 | - | 10 |
| Abbott LCx | 2 | - | 2 |
| BD ProbeTec | 1 | - | 1 |
| Gen-Probe | 7 | - | 7 |

Specimen CY-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 10 | 10 | - |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | 1 | - |
| Gen-Probe | 7 | 7 | - |

Specimen CY-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 10 | 10 | - |
| Abbott LCx | 2 | 2 | - |
| BD ProbeTec | 1 | 1 | - |
| Gen-Probe | 7 | 7 | - |

Specimen CY-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 10 | - | 10 |
| Abbott LCx | 2 | - | 2 |
| BD ProbeTec | 1 | - | 1 |
| Gen-Probe | 7 | - | 7 |

GC (ANTIGEN DETECTION)

Specimen CY-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 10 | - | 10 |
| Abbott LCx | 2 | - | 2 |
| BD ProbeTec | 1 | - | 1 |
| Gen-Probe | 7 | - | 7 |

AFFIRM VP III- Gardnerella vaginalis

Specimen VP-6

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 35 | 100% | Acceptable |

Organism present in specimen VP-6: *Trichomonas vaginalis*.

Specimen VP-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Positive | 34 | 97.1% | Acceptable |
| Negative | 1 | 2.9% | |

Organism present in specimen VP-7: *Gardnerella vaginalis*.

Specimen VP-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 35 | 100% | Acceptable |

Organisms present in specimen VP-8: *Candida albicans* and *Trichomonas vaginalis*.

Specimen VP-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Positive | 34 | 100% | Acceptable |

Organism present in specimen VP-9: *Gardnerella vaginalis*.

Specimen VP-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 34 | 100% | Acceptable |

Organism present in specimen VP-10: Negative specimen (sterile).

AFFIRM VP III- Candida sp.**Specimen VP-6**

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 35 | 100% | Acceptable |

Specimen VP-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 35 | 100% | Acceptable |

Specimen VP-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Positive | 35 | 100% | Acceptable |

Specimen VP-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 34 | 100% | Acceptable |

Specimen VP-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 34 | 100% | Acceptable |

AFFIRM VP III- Trichomonas vaginalis**Specimen VP-6**

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Positive | 21 | 60.0% | Not graded |
| Negative | 14 | 40.0% | |

This is an ungraded challenge due to less than 80% participant consensus.

Specimen VP-7

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 35 | 100% | Acceptable |

Specimen VP-8

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Positive | 18 | 51.4% | Not graded |
| Negative | 17 | 48.6% | |

This is an ungraded challenge due to less than 80% participant consensus.

AFFIRM VP III- Trichomonas vaginalis

Specimen VP-9

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 34 | 100% | Acceptable |

Specimen VP-10

| <u>Identification</u> | <u>Labs</u> | <u>Percent</u> | <u>Performance</u> |
|-----------------------|-------------|----------------|--------------------|
| Negative | 34 | 100% | Acceptable |

RSV ANTIGEN DETECTION

Specimen V-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 22 | 22 | - |
| BD Directigen | 16 | 16 | - |
| Binax NOW | 1 | 1 | - |
| BioStar OIA | 5 | 5 | - |

Specimen V-6: Positive for RSV antigen.

Specimen V-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 22 | - | 22 |
| BD Directigen | 16 | - | 16 |
| Binax NOW | 1 | - | 1 |
| BioStar OIA | 5 | - | 5 |

Specimen V-7: Negative for RSV antigen.

Specimen V-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| All Methods | 22 | 21 | 1 |
| BD Directigen | 16 | 15 | 1 |
| Binax NOW | 1 | 1 | - |
| BioStar OIA | 5 | 5 | - |

Specimen V-8: Positive for RSV antigen.

RSV ANTIGEN DETECTION

Specimen V-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|----------------------|--------------------|------------------------|------------------------|
| All Methods | 22 | - | 22 |
| BD Directigen | 16 | - | 16 |
| Binax NOW | 1 | - | 1 |
| BioStar OIA | 5 | - | 5 |

Specimen V-9: Negative for RSV antigen.

Specimen V-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|----------------------|--------------------|------------------------|------------------------|
| All Methods | 22 | 22 | - |
| BD Directigen | 16 | 16 | - |
| Binax NOW | 1 | 1 | - |
| BioStar OIA | 5 | 5 | - |

Specimen V-10: Positive for RSV antigen.

INFLUENZA A ANTIGEN DETECTION

Specimen V-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|--------------------|------------------------|------------------------|
| All Methods | 55 | 2 | 53 |
| BD Directigen | 5 | 1 | 4 |
| Binax NOW | 2 | - | 2 |
| BioStar OIA | 9 | - | 9 |
| Quidel QuickVue Influenza | 30 | 1 | 29 |
| ZymeTx | 8 | - | 8 |

Specimen V-6: Negative for Influenza A antigen.

Specimen V-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|--------------------|------------------------|------------------------|
| All Methods | 55 | 54 | 1 |
| BD Directigen | 5 | 5 | - |
| Binax NOW | 2 | 2 | - |
| BioStar OIA | 9 | 9 | - |
| Quidel QuickVue Influenza | 30 | 29 | 1 |
| ZymeTx | 8 | 8 | - |

Specimen V-7: Positive for Influenza A antigen.

INFLUENZA A ANTIGEN DETECTION

Specimen V-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 28 | - | 28 |
| BD Directigen | 4 | - | 4 |
| Binax NOW | 2 | - | 2 |
| BioStar OIA | 8 | - | 8 |
| Quidel QuickVue Influenza | 11 | - | 11 |
| ZymeTx | 2 | - | 2 |

Specimen V-8: Negative for Influenza A antigen.

Specimen V-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 28 | 27 | 1 |
| BD Directigen | 4 | 4 | - |
| Binax NOW | 2 | 2 | - |
| BioStar OIA | 8 | 8 | - |
| Quidel QuickVue Influenza | 11 | 11 | - |
| ZymeTx | 2 | 1 | 1 |

Specimen V-9: Positive for Influenza A antigen.

Specimen V-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 28 | - | 28 |
| BD Directigen | 4 | - | 4 |
| Binax NOW | 2 | - | 2 |
| BioStar OIA | 8 | - | 8 |
| Quidel QuickVue Influenza | 11 | - | 11 |
| ZymeTx | 2 | - | 2 |

Specimen V-10: Negative for Influenza A antigen.

LEGIONELLA ANTIGEN DETECTION

Specimen L-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 188 | - | 188 |

Specimen L-6: Negative for *Legionella* antigen.

Specimen L-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 187 | 187 | - |

Specimen L-7: Positive for *Legionella* antigen.

LEGIONELLA ANTIGEN DETECTION

Specimen L-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 188 | 188 | - |

Specimen L-8: Positive for *Legionella* antigen.

Specimen L-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 188 | 1 | 187 |

Specimen L-9: Negative for *Legionella* antigen.

Specimen L-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 188 | 187 | 1 |

Specimen L-10: Positive for *Legionella* antigen.

CLOSTRIDIUM DIFFICILE TOXIN ANTIGEN DETECTION

Specimen AG-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 22 | 1 | 21 |
| Alexon (Hycor) | 1 | - | 1 |
| Becton Dickinson Toxin CD | 1 | - | 1 |
| bioMerieux Vitek, Mini Vidas | 1 | - | 1 |
| Biosite Triage | 7 | - | 7 |
| BioStar OIA | 9 | - | 9 |
| Meridian Premier | 1 | - | 1 |
| Wampole | 1 | 1 | - |

Specimen AG-6: Negative for *Clostridium difficile* antigen.

Specimen AG-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 22 | 22 | - |
| Alexon (Hycor) | 1 | 1 | - |
| Becton Dickinson Toxin CD | 1 | 1 | - |
| bioMerieux Vitek, Mini Vidas | 1 | 1 | - |
| Biosite Triage | 7 | 7 | - |
| BioStar OIA | 9 | 9 | - |
| Meridian Premier | 1 | 1 | - |
| Wampole | 1 | 1 | - |

Specimen AG-7: Positive for *Clostridium difficile* antigen.

CLOSTRIDIUM DIFFICILE TOXIN ANTIGEN DETECTION

Specimen AG-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 22 | - | 22 |
| Alexon (Hycor) | 1 | - | 1 |
| Becton Dickinson Toxin CD | 1 | - | 1 |
| bioMerieux Vitek, Mini Vidas | 1 | - | 1 |
| Biosite Triage | 7 | - | 7 |
| BioStar OIA | 9 | - | 9 |
| Meridian Premier | 1 | - | 1 |
| Wampole | 1 | - | 1 |

Specimen AG-8: Negative for *Clostridium difficile* antigen.

Specimen AG-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 22 | 22 | - |
| Alexon (Hycor) | 1 | 1 | - |
| Becton Dickinson Toxin CD | 1 | 1 | - |
| bioMerieux Vitek, Mini Vidas | 1 | 1 | - |
| Biosite Triage | 7 | 7 | - |
| BioStar OIA | 9 | 9 | - |
| Meridian Premier | 1 | 1 | - |
| Wampole | 1 | 1 | - |

Specimen AG-9: Positive for *Clostridium difficile* antigen.

Specimen AG-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|------------------------------|-------------|-----------------|-----------------|
| All Methods | 22 | - | 22 |
| Alexon (Hycor) | 1 | - | 1 |
| Becton Dickinson Toxin CD | 1 | - | 1 |
| bioMerieux Vitek, Mini Vidas | 1 | - | 1 |
| Biosite Triage | 7 | - | 7 |
| BioStar OIA | 9 | - | 9 |
| Meridian Premier | 1 | - | 1 |
| Wampole | 1 | - | 1 |

Specimen AG-10: Negative for *Clostridium difficile* antigen.

ROTAVIRUS ANTIGEN DETECTION

Specimen AG-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------|-------------|-----------------|-----------------|
| All Methods | 8 | - | 8 |
| Meridian ImmunoCard | 5 | - | 5 |
| Meridian Premier | 1 | - | 1 |

Specimen AG-6: Negative for Rotavirus antigen.

ROTAVIRUS ANTIGEN DETECTION

Specimen AG-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------|-------------|-----------------|-----------------|
| All Methods | 10 | 1 | 9 |
| Meridian ImmunoCard | 6 | 1 | 5 |
| Meridian Premier | 1 | - | 1 |

Specimen AG-7: Negative for Rotavirus antigen.

Specimen AG-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------|-------------|-----------------|-----------------|
| All Methods | 10 | 10 | - |
| Meridian ImmunoCard | 6 | 6 | - |
| Meridian Premier | 1 | 1 | - |

Specimen AG-8: Positive for Rotavirus antigen.

Specimen AG-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------|-------------|-----------------|-----------------|
| All Methods | 10 | 1 | 9 |
| Meridian ImmunoCard | 6 | 1 | 5 |
| Meridian Premier | 1 | - | 1 |

Specimen AG-9: Negative for Rotavirus antigen.

Specimen AG-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------|-------------|-----------------|-----------------|
| All Methods | 10 | 10 | - |
| Meridian ImmunoCard | 6 | 6 | - |
| Meridian Premier | 1 | 1 | - |

Specimen AG-10: Positive for Rotavirus antigen.

CRYPTOSPORIDIUM ANTIGEN DETECTION

Specimen AG-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 5 | 4 | 1 |
| Alexon (Hycor) | 1 | 1 | - |
| Becton Dickinson ColorPAC | 2 | 2 | - |
| BioStie Triage | 1 | - | 1 |
| Meridian Merifluor | 1 | 1 | - |

Specimen AG 6: Positive for *Cryptosporidium* antigen.

CRYPTOSPORIDIUM ANTIGEN DETECTION

Specimen AG-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 5 | - | 5 |
| Alexon (Hycor) | 1 | - | 1 |
| Becton Dickinson ColorPAC | 2 | - | 2 |
| Biosite Triage | 1 | - | 1 |
| Meridian Merifluor | 1 | - | 1 |

Specimen AG 7: Negative for *Cryptosporidium* antigen.

GIARDIA LAMBLIA ANTIGEN DETECTION

Specimen AG-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 9 | 8 | 1 |
| Alexon (Hycor) | 4 | 4 | - |
| Becton Dickinson ColorPAC | 2 | 2 | - |
| Biosite Triage | 1 | - | 1 |
| Meridian Merifluor | 1 | 1 | - |
| Remel RIM Immuno | 1 | 1 | - |

Specimen AG-6: Positive for *Giardia lamblia* antigen.

Specimen AG-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------------------|-------------|-----------------|-----------------|
| All Methods | 9 | - | 9 |
| Alexon (Hycor) | 4 | - | 4 |
| Becton Dickinson ColorPAC | 2 | - | 2 |
| Biosite Triage | 1 | - | 1 |
| Meridian Merifluor | 1 | - | 1 |
| Remel RIM Immuno | 1 | - | 1 |

Specimen AG-7: Negative for *Giardia lamblia* antigen.

STREPTOCOCCUS PNEUMONIAE ANTIGEN

Specimen SP-6

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 68 | 67 | 1 |

Specimen SP-6: Positive for *Streptococcus pneumoniae* antigen.

Specimen SP-7

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 68 | - | 68 |

Specimen SP-7: Negative for *Streptococcus pneumoniae* antigen.

STREPTOCOCCUS PNEUMONIAE ANTIGEN

Specimen SP-8

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 68 | 1 | 67 |

Specimen SP-8: Negative for *Streptococcus pneumoniae* antigen.

Specimen SP-9

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 68 | 68 | - |

Specimen SP-9: Positive for *Streptococcus pneumoniae* antigen.

Specimen SP-10

| <u>Method</u> | <u>Labs</u> | <u>Positive</u> | <u>Negative</u> |
|---------------|-------------|-----------------|-----------------|
| Binax NOW | 68 | 68 | - |

Specimen SP-10: Positive for *Streptococcus pneumoniae* antigen.

PARASITOLOGY

One participant reported results for Parasitology. The parasites that are present in each specimen are as follows:

PVA Slide

PA-6 – Entamoeba coli

PA-7 – Dientamoeba fragilis

Fecal Suspension

PA-8 – Giardia lamblia

PA-9 – Hookworm

PA-10 – Strongyloides stercoralis larvae

SUMMARY OF ISOLATES FOUND IN THE 2003 MLE-A2 CULTURE SPECIMENS

| Organism | ATCC Strain |
|-----------------------------------|--------------------|
| <i>Enterococcus faecalis</i> | 29212 |
| <i>Klebsiella pneumoniae</i> | 13883 |
| <i>Proteus mirabilis</i> | 12453 |
| <i>Staphylococcus epidermidis</i> | 14990 |
| <i>Pseudomonas aeruginosa</i> | 27853 |
| <i>Escherichia coli</i> | 25922 |
| <i>Lactobacillus casei</i> | 393 |
| <i>Streptococcus sp. Group B</i> | 12386 |
| <i>Corynebacterium sp.</i> | 49528 |
| <i>Proteus vulgaris</i> | 13315 |
| <i>Neisseria gonorrhoeae</i> | 19424 |
| <i>Gardnerella vaginalis</i> | 14018 |
| <i>Neisseria mucosa</i> | 19695 |
| <i>Streptococcus pyogenes</i> | 19615 |
| <i>Streptococcus pneumoniae</i> | 6305 |
| <i>Staphylococcus aureus</i> | 25923 |

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