

BACTERIOLOGY PROFICIENCY TESTING PROGRAM

General Category

January 13, 2009

This report summarizes the results of the proficiency test administered January 13, 2009 to laboratories in the General Bacteriology category.

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Bacteriology Proficiency Testing Program

GENERAL INFORMATION

The Bacteriology Proficiency Testing Program. Three proficiency testing events are given annually, each consisting of a minimum of five specimens. In order to successfully complete a test event, participating laboratories must achieve a score of 80% or greater. Unsuccessful performance in the testing program is defined as a score of less than 80% on two of three consecutive test events.

Authentication. The presence and identity of the organism(s) in each specimen must be confirmed by at least 80% of the referee or participating laboratories. Referee laboratories are selected from New York State participating laboratories (located throughout the State) with acceptable and reproducible levels of performance. Samples are subjected to extensive quality control testing in our laboratory during preparation and storage.

Grading System. Laboratories are to process proficiency test specimens in the same manner as patient specimens. Thus, laboratories are responsible for identifying test isolates to the same level as performed on patient isolates. If your laboratory speciates an organism on special request, then you must also speciate it in the proficiency test; consider speciation to have been requested on all reportable isolates. In addition, laboratories are not responsible for culturing any test samples from specimen sources which they do not process. Information regarding your laboratory's reporting protocol was provided to us in the questionnaire previously distributed to all laboratories. Any changes in reporting protocol must be received by our office prior to the mailout date for proficiency testing for that information to be considered in grading.

Our testing format is in compliance with Health Care Financing Administration, Center for Medicare and Medicaid Services (HCFA CMS) guidelines as specified in the regulations of CLIA '88. One-half of our samples require identification of all organisms present. The other half requires that only the pathogenic organism(s) be reported. We recognize the potential for any organism to be pathogenic depending on the clinical condition of the patient. However, our samples are designed so that only well-established pathogens should be reported.

Tests are graded in strict adherence to HCFA CMS guidelines, as specified in the regulations of CLIA '88. Each of the specimens receives a score as determined by the following formula:

$$(a + b)/(c + d + e) \times 100\%$$

a = # correct identifications

b = # correct antibiotic susceptibility results (if applicable)

c = # possible identifications

d = # possible antibiotic susceptibility results (if applicable)

e = # additional organisms reported

Grades for each sample are then averaged to determine the final grade for this testing event. The minimum passing grade for each test event is 80%.

Disclaimer

The use of brand and/or trade names in this report does not constitute an endorsement of the products on the part of the Wadsworth Center or the New York State Department of Health.

Notes of Interest

CLSI 2009 Recommendation:

Included in the CLSI 2009 document (M100-S19) is a recommendation that the modified Hodge test be used as a confirmatory test to detect carbapenemase production in *Enterobacteriaceae*. Laboratory testing and reporting information about the modified Hodge test can be obtained in Appendix G – Screening and Confirmatory Tests for Suspected Carbapenemase Production in *Enterobacteriaceae* (p. 136 – 139).

The following updated standards are available from the Clinical and Laboratory Standards Institute:

M100-S19 Performance Standards for Antimicrobial Susceptibility Testing: Nineteenth Informational Supplement. January 2009.

M02-A10 Performance Standards for Antimicrobial Disk Susceptibility Tests; Approved Standard – Tenth Edition. January 2009.

M07-A8 Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically; Approved Standard – Eighth Edition. January 2009.

Clinical Laboratory and Standards Institute
940 West Valley Road, Suite 1400
Wayne, PA 19087-1898
(610) 688-0100
www.clsi.org

Bacteriology Questionnaires

Recently, there have been incidences where laboratories have lost credit on proficiency test results because of inaccuracies or outdated information on their Bacteriology Questionnaire. Grades will not be revised due to incorrect information on the questionnaire. Please make sure that the information on your laboratory's Bacteriology Questionnaire is accurate. If you need a copy of your questionnaire for review, please contact our office at 518-474-4177 or email us at bacti@wadsworth.org. Please note that proficiency test results are graded in accordance with information on the questionnaire. **Grades will not be revised due to incorrect information on the questionnaire.**

EPTRS Reporting Tips

The EPTRS system has greatly streamlined the transmission of proficiency test results and has drastically reduced the turnaround time for scoring test events. However, the system has certain restrictions and attempts by users to circumvent these restrictions result in a slower grading process and can cause scoring errors. Below are some helpful tips on data entry that can help minimize these problems:

1. Please do not enter an organism more than once for the same sample. For example, do not enter '*E. coli*' under Bacterial Identification 1 and again under Bacterial Identification 2. Do not enter an identification twice in order to list multiple methods of identification – see 2.
2. Please do not enter multiple systems for one identification. The system information is only for statistical purposes and we do not count multiple systems entered. Please choose the ONE system you relied on most for your identification.
3. Please use the drop down list if at all possible. There are very few times when you should need to use the "other" box. Entries such as "Catalase, sugars, gram stain" should be entered as "Conventional biochemicals" rather than typed in the "Other" box. Individual biochemical results are not noted in the statistics.
4. Please do not enter both an MIC and a zone size for one susceptibility result. Enter only the value obtained from the system you based your interpretation on.
5. Please do not enter extraneous information in the Bacterial Identification field, such as "would send to reference lab for confirmation". We realize this is what you may report to a physician but it is unnecessary for proficiency results and does not affect your grade. If you would like to enter additional information, please utilize the "Comment" field on the first page of the EPTRS form.

Please follow these suggestions to ensure that your grade is accurate. All extra information can adversely affect the grading program that is utilized.

JANUARY 13, 2009 TEST EVENT

Number of Participating Laboratories:

Receiving specimens 208

Returning results 208 (100%)

Grade Distribution		
Score	Number	Percent
100%	173	83
90 – 99%	21	10
80 – 89%	10	5
70 – 79%	4	2

BACTERIOLOGY - GENERAL
JANUARY 13, 2009
ANSWER KEY

Specimen No. 1 - Stool (Pathogens Only)

Salmonella serogroup B (*Salmonella* serotype Typhimurium)

Specimen No. 2 – Sputum (Pathogens Only)

S. pyogenes (Group A *Streptococcus*)

Specimen No. 3 – Tissue - Aerobic / Anaerobic (All Organisms)

Fusobacterium nucleatum

Staphylococcus aureus

Specimen No. 4 – Urine (Pathogens Only) / Antibiotic Susceptibility

Klebsiella pneumoniae

Susceptibility of *K. pneumoniae* to: Cefazidime - Susceptible
Ertapenem - Susceptible

Specimen No. 5 – Cervix (Pathogens Only)

Streptococcus agalactiae (Group B *Streptococcus*)

***Chlamydia* Direct Detection - Cervix**

Negative for *Chlamydia trachomatis*

A – Group A *Streptococcus* Direct Antigen Detection - Throat

Negative for Group A *Streptococcus*

REFEREE LABORATORY RESULTS

Specimen Number	Referee Laboratory Responses	Percent*
1	<i>Salmonella</i> serogroup B <i>Salmonella</i> serotype Typhimurium	90 10
2	<i>S. pyogenes</i> (Group A <i>Streptococcus</i>)	100
3	<i>Fusobacterium nucleatum</i> <i>Staphylococcus aureus</i>	100 100
4	<i>Klebsiella pneumoniae</i>	100
5	<i>Streptococcus agalactiae</i> (Group B <i>Streptococcus</i>)	100

* Based on responses of 10 referee laboratories

Specimen Number 1 - Stool (Pathogens Only)

This simulated stool specimen contained *Salmonella* serogroup B (*Salmonella* serotype Typhimurium). This pathogen was identified correctly by 100% of the referee laboratories, with 90% reporting *Salmonella* serogroup B and 10% reporting *Salmonella* serotype Typhimurium. Of the participating laboratories that process stool cultures for *Salmonella*, 99% isolated this organism, with 64% of them reporting to the serotype or serogroup level. An additional 6% further identified that this organism was not *Salmonella* serotype Typhi. Approximately 30% did not perform any serogrouping and reported *Salmonella* species.

Enterococcus faecalis and *Escherichia coli* were included in this specimen as nonpathogenic flora.

Number 1 - Methods of identification used by laboratories reporting:

***Salmonella* serogroup B**

Dade Behring MicroScan Gram Neg ID	38
bioMerieux Vitek 2 GN	31
bioMerieux API 20E	20
bioMerieux Vitek 1 GNI +	16
Remel Wellcolex Colour Salmonella	7
Conventional biochemicals	3
bioMerieux API Rapid 20E	2
BD Salmonella Grouping Antisera	3
BD BBL Crystal Enteric/Nonfermenter	1
BD Phoenix Gram Negative ID	1
Welcollex Salmonella Typing Kit	1
BD BBL Enterotube II	1
Remel Agglutinating Serum for Salmonella	1
TOTAL	125

***Salmonella* species**

Dade Behring MicroScan Gram Neg ID	19
bioMerieux Vitek 2 GN	19
bioMerieux Vitek 1 GNI +	10
bioMerieux API 20E	4
BD Phoenix Gram Negative ID	3
Conventional biochemicals	1
Dade Behring Negative Combo 32	1
Vitek 2 Compact "Biomerieux"	1
BD BBL Crystal Enteric/Nonfermenter	1
TOTAL	59

***Salmonella* species, not typhi**

Dade Behring MicroScan Gram Neg ID	4
bioMerieux Vitek 2 GN	3

bioMerieux Vitek 1 GNI +	2
Siemens Microscan Neg. Urine Combo Panel 51	1
Conventional biochemicals	1
TOTAL	11
<i>Salmonella</i> serotype Typhimurium	
Conventional biochemicals	2
<i>Salmonella</i> serotype Choleraesuis	
Conventional biochemicals	1
<i>Salmonella</i> serogroup D	
bioMerieux API 20E	1
Specimen source not tested	9
Total All Responses	208
Additional organisms reported:	
<i>Enterococcus</i> species	
bioMerieux Vitek 2 GP	1
<i>Enterococcus</i> species	
PYR spot test	1
<i>Escherichia coli</i>	
bioMerieux Vitek 2 GN	1
Hemolytic <i>Escherichia coli</i>	
Sheen on EMB agar and spot indole	1

Specimen No. 2 – Sputum (Pathogens Only)

The pathogenic organism included in this simulated sputum specimen was *Streptococcus*, group A (*S. pyogenes*). This organism was identified by all referee laboratories and 99.5% of the participating laboratories that process sputum specimens. Additional organisms that were included in this sample as normal respiratory flora were *Streptococcus mitis* and *Neisseria mucosa*.

Number 2 - Methods of identification used by laboratories reporting:

Streptococcus, group A (S. pyogenes)

BD BBL Streptocard	44
Conventional biochemicals	37
DPC PathoDX Strep Grouping	32
Murex Streptex	22
bioMerieux Vitek 2 GP	13
Remel Streptex	13
Pro-Lab Streptococcal Grouping Latex Kit	9
Dade Behring MicroScan Gram Pos ID	8
Hardy Diagnostics Strep Pro Grouping Kit	7
bioMerieux Vitek 1 GPI	5
Boule Diagnostics Phadebact Streptococcus	3
bioMerieux API 20 Strep	2
BD Chek Group A Strep	1
Remel RapID STR	1
StrepPro Grouping Kit	1
Oxoid Streptococcal Grouping Kit	1
BD Phoenix Gram Positive ID	1
Dade Behring Postivie Combo 20	1
Not given	1
TOTAL	202

Specimen source not tested 5

Non viable 1

Total all responses 208

Additional organisms reported:

Alpha-hemolytic <i>Streptococcus</i>	
Conventional biochemicals	1
Other - Gamma hemolytic <i>Streptococcus</i>	
Conventional biochemicals	1
<i>Neisseria</i> species	
Gram Stain morphology	1
<i>Staphylococcus aureus</i>	
Remel Staphaureux	1
<i>Moraxella (Branhamella) catarrhalis</i>	
Remel RapID NH	1

Specimen No. 3 – Tissue - Aerobic/Anaerobic (All Organisms)

This simulated tissue specimen was to be cultured both aerobically and anaerobically. It contained *Fusobacterium nucleatum* and *Staphylococcus aureus*.

Fusobacterium nucleatum was identified by 100% of the referee laboratories. Of the participating laboratories that processed this specimen 94% correctly identified this pathogen with 78.6% reporting *Fusobacterium nucleatum* and 19.8% reporting *Fusobacterium* species.

Staphylococcus aureus was identified by 100% of the referee laboratories and by 99% of participating laboratories that processed the sample. An additional 12% of participants reported *Staphylococcus* species.

Number 3 (Anaerobe) - Methods of identification used by laboratories reporting:

Fusobacterium nucleatum

Remel RapID ANA II	76
bioMerieux Vitek 1 ANI	17
bioMerieux API 20A	15
Dade Behring MicroScan Rapid Anaerobe	14
Vitek 2 ANC	8
bioMerieux API Rapid ID 32A	5
BD BBL Crystal Anaerobe	3
16s rDNA sequencing	2
Conventional biochemicals	1
Remel MicroID	1
Not given	1
TOTAL	143

Fusobacterium species

Remel RapID ANA II	28
Dade Behring MicroScan Rapid Anaerobe	2
bioMerieux API 20A	2
bioMerieux Vitek 1 ANI	2
bioMerieux API Rapid ID 32A	1
Conventional biochemicals	1
TOTAL	36

Anaerobic gram negative bacilli

Not applicable	1
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Fusobacterium necrophorum

Remel RapID ANA II	4
Siemens: Rapid ANA Lipase	1
bioMerieux Vitek 1 ANI	1
TOTAL	6

<i>Fusobacterium varium</i>	
Remel RapID ANA II	3
<i>Fusobacterium mortiferum</i>	
Gram Stain	1
No Bifidobacter sp. isolated	
No growth on specialized media	2
Anaerobe not isolated	1
Specimen source not tested	8
Do not culture anaerobes	7
Total all responses	208

Number 3 (Aerobe) - Methods of identification used by laboratories reporting:

<i>Staphylococcus aureus</i>	
Dade Behring MicroScan Gram Pos ID	55
bioMerieux Vitek 2 GP	26
Conventional biochemicals	30
Murex Staphaurex	24
BD BBL Staphyloslide	11
Remel BactiStaph	9
bioMerieux Vitek 1 GPI	7
Fisher Healthcare SureVue Color Staph	6
Remel Staphaurex	8
BD Phoenix Gram Positive ID	3
bioMerieux API Staph	3
Pro-Lab Diagnostics Prolex Staph latex	2
Siemens Microscan Pos Combo 29	1
16s rDNA sequencing	1
Fisher Sure-Vue Staph ID	2
bioMerieux Vitek Slidex Staph	2
Vitek 2 Compact " Biomerieux"	1
bioMerieux Vitek 2 GN	1
Polymerase chain reaction	1
Dade Behring MicroScan HNID	1
Pro-Lab Staph Xtra Latex Agglutination	1
TOTAL	195

<i>Staphylococcus, coagulase positive</i>	
bioMerieux Vitek Slidex Staph	1
Dade Behring MicroScan Gram Pos ID	1
TOTAL	2
<i>Staphylococcus species</i>	
Conventional biochemicals	1
Not isolated	2
Specimen source not tested	8
Total all responses	208
Additional organisms reported:	
<i>Enterococcus faecalis</i>	
Dade Behring MicroScan Gram Pos ID	1
<i>Streptococcus mitis</i>	
Dade Behring MicroScan Gram Pos ID	1
<i>Propionibacterium acnes</i>	
Remel RapID ANA II	1
<i>Staphylococcus, coagulase negative</i>	
Murex Staphaurex	1
<i>Staphylococcus, coagulase positive</i>	
Conventional biochemicals	1

Specimen No. 4 – Urine (Pathogens Only) and Antibiotic Susceptibility

This simulated urine specimen contained *Klebsiella pneumoniae*. This organism was identified by all referee laboratories. Of the participating laboratories that processed this sample, 99% reported *K. pneumoniae* and 0.5% reported *Klebsiella* species.

Antimicrobial susceptibility testing was indicated for this specimen. This isolate of *K. pneumoniae* was susceptible to both ceftazidime and ertapenem.

Number 4 - Methods of identification used by laboratories reporting:

Klebsiella pneumoniae

Dade Behring MicroScan Gram Neg ID	78
bioMerieux Vitek 2 GN	59
bioMerieux Vitek 1 GNI +	30
bioMerieux API 20E	21
BD Phoenix Gram Negative ID	5
BD BBL Crystal Enteric/Nonfermenter	3
Conventional biochemicals	2
BD BBL Enterotube II	2
16s rDNA sequencing	1
Vitek 2 Compact " Biomerieux"	1
Dupont RiboPrinter	1
Siemens Microscan Neg Urine Combo Panel Type 51	1
Dade Behring MicroScan Rapid Anaerobe	1
TOTAL	205

Klebsiella species

Dade Behring MicroScan Gram Neg ID	1
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Specimen source not tested 1

Streptococcus, group B (S. agalactiae)

bioMerieux Vitek 2 GP	1
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Total all responses 208

Results of Antimicrobial Susceptibility Testing – *Klebsiella pneumoniae* with Ceftazidime

Result	Method (# labs)	# of Labs	MIC – ug/ml	Zone - mm	
Susceptible	MicroScan (75)	50	≤1		
		8	≤8		
		7	<1		
		4	≤2		
		3	Not given		
		1	<4		
		1	≤4		
		1	<8		
	bioMerieux Vitek 2 (44)	42	≤1		
		1	<1		
		1	<4		
	bioMerieux Vitek 1 (14)	11	≤8		
		2	<8		
		1	Not given		
	E-test (5)	3	0.25		
		1	1.0		
		1	<0.5		
	BD Phoenix (5)	5	≤0.5		
	Trek Sensititre (3)	1	≤0.5		
		1	≤1		
		1	≤4		
	Agar dilution (1)	1	≤8		
	Disk diffusion (26)	6			28
		6			30
		3			27
		3			29
		2			24
		2			26
1			22		
1			25		
1			31		
1			32		
Test not performed on antibiotic	25				
Test not performed on organism	6				
Test not performed on source	3				
Susceptibility testing not offered	1				
Total All Responses	208				

Results of Antimicrobial Susceptibility Testing – *Klebsiella pneumoniae* with Ertapenem

Result	Method (# labs)	# of Labs	MIC – ug/ml	Zone - mm	
Susceptible	MicroScan (57)	45	≤2		
		8	<2		
		4	Not given		
	bioMerieux Vitek 2 (46)	45	≤0.5		
		1	<0.5		
	E-test (9)	2	0.023		
		2	0.032		
		1	0.012		
		1	0.016		
		1	0.030		
		1	0.19		
		1	≤2		
	BD Phoenix (2)	2	≤0.5		
	bioMerieux Vitek 1 (1)	1	Not given		
	Trek Sensititre (2)	1	≤0.03		
		1	≤2		
	Siemens Microscan Neg Combo (1)	1	<2		
	Agar dilution (1)	1	≤1		
	Disk diffusion (17)	6			30
		2			32
		2			33
		1			26
		1			27
1			28		
1			31		
1			34		
1			36		
1			Not given		
Test not performed on antibiotic	62				
Test not performed on organism	6				
Test not performed on source	3				
Susceptibility testing not offered	1				
Total All Responses	208				

Specimen No. 5 – Cervix (Pathogens Only)

This simulated cervix culture contained *Streptococcus agalactiae* (Group B *Streptococcus*). This organism was identified by all referee laboratories. Of the participating laboratories that processed this specimen, approximately 98% reported *Streptococcus agalactiae* (Group B *Streptococcus*).

Number 5 - Methods of identification used by laboratories reporting:

<i>Streptococcus, group B (S. agalactiae)</i>	
BD BBL Streptocard	43
Murex Streptex	34
DPC PathoDX Strep Grouping	32
Conventional biochemicals	25
bioMerieux Vitek 2 GP	14
Dade Behring MicroScan Gram Pos ID	12
Pro-Lab Streptococcal Grouping Latex Kit	10
bioMerieux Vitek 1 GPI	9
Hardy Diagnostics Strep Pro Grouping Kit	6
bioMerieux API 20 Strep	3
Boule Diagnostics Phadebact Streptococcus	3
Carrot Broth	1
Remel RapID STR	1
BD Phoenix Gram Positive ID	1
Oxoid Streptococcal Grouping Kit	1
Dade Behring Positive Combo 20	1
TOTAL	196
No pathogens isolated	3
<i>Klebsiella pneumoniae</i>	
bioMerieux Vitek 2 GN	1
No <i>Neisseria gonorrhoeae</i> isolated	1
Specimen source not tested	7
Total all responses	208

Chlamydia – cervical swab for direct testing

This simulated cervical swab was provided to laboratories that test for *Chlamydia* using direct detection methods. This sample contains non-viable organisms and is not suitable for laboratories performing *Chlamydia* culture. Currently, 108 out of 208 participating laboratories (51.9%) perform direct detection testing for *Chlamydia*.

This sample was negative for *Chlamydia* and was reported as such by 99% of the participating laboratories that tested this specimen.

Test kits used by laboratories reporting this specimen as:

Negative for *Chlamydia trachomatis*

Gen-Probe PACE 2 CT or CT/GC	35
Gen-Probe Aptima Combo 2	31
BD ProbeTec ET CT or CT/GC	21
Roche Diagnostics COBAS AMPLICOR CT/NG	10
bioMerieux VIDAS	4
Digene Hybrid Capture hc2 CT/GC	1
real-time PCR	1
Roche Diagnostics AMPLICOR CT/NG	1
BioRad Chlamydia Microplate EIA	1
Quidel QuickVue Chlamydia	1
TOTAL	107

Positive for *Chlamydia trachomatis*

Gen-Probe Aptima Combo 2	1
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Total all responses **108**

Direct Antigen Detection

Specimen A – Throat swab for Group A *Streptococcus*

This specimen was negative for Group A *Streptococcus*. All of the participating laboratories that processed this specimen reported it as negative.

Test kits used by laboratories reporting this specimen as:

Negative for Group A *Streptococcus*:

Genzyme OSOM Ultra Strep A	19
BD Directigen EZ Strep A	17
BioStar Acceava Strep A	15
Quidel QuickVue + Strep A	8
Abbott Signify Strep A Dipstick	5
Fisher Sure-Vue Select Strep A	4
Fisher Sure-Vue Strep A Lateral Flow Test	4
Quidel QuickVue Inline Strep A	3
Cardinal Health SP Brand Strep A Cassette	3
Meridian Bioscience ImmunoCard STAT Strep A	3
GenProbe Group A Strep	3
BD Chek Strep A	3
Remel PathoDx Strep A	2
Stanbio - QuStick Strep A	2
Quidel QuickVue Dipstick Strep A	2
Cardinal Health SP Brand Strep A Dipstick	2
Abbott Signify Strep A Cassette	2
Fisher Sure-Vue Signature Strep A Test	2
Wampole Clearview Strep A Extract	2
BioStar Strep A OIA Max	2
Sacks Medical Corp RefuAH Strep A	1
BTNX Rapid Response	1
Polymedco Poly Stat Strep A	1
Beckman Coulter Icon SC Strep A	1
Beckman Coulter Icon DS Strep A	1
Total all responses	108

BACTERIAL IDENTIFICATION BY PARTICIPATING LABORATORIES

SPECIMEN NUMBER 1	<u>Number Reported</u>	<u>%</u>
<i>Salmonella</i> serogroup B	125	60.1
<i>Salmonella</i> species	59	28.4
<i>Salmonella</i> species, not typhi	11	5.3
<i>Salmonella</i> serotype Typhimurium	2	1.0
<i>Salmonella</i> serotype Choleraesuis	1	0.5
<i>Salmonella</i> serogroup D	1	0.5
Specimen source not tested	9	4.3

SPECIMEN NUMBER 2		
<i>Streptococcus</i> , group A (<i>S. pyogenes</i>)	202	97.1
Specimen source not tested	5	2.4
Non viable	1	0.5

SPECIMEN NUMBER 3 – Anaerobic organism

<i>Fusobacterium nucleatum</i>	143	68.8
<i>Fusobacterium</i> species	36	17.3
Anaerobic gram negative bacilli	1	0.5
<i>Fusobacterium necrophorum</i>	6	2.9
<i>Fusobacterium varium</i>	3	1.4
<i>Fusobacterium mortiferum</i>	1	0.5
No <i>Bifidobacter</i> sp. Isolated	2	1.0
Anaerobe not isolated	1	0.5
Specimen source not tested	8	3.8
Do not culture anaerobes	7	3.4

SPECIMEN NUMBER 3 – Aerobic organism

<i>Staphylococcus aureus</i>	195	93.8
<i>Staphylococcus</i> , coagulase positive	2	1.0
<i>Staphylococcus</i> species	1	0.5
Not isolated	2	1.0
Specimen source not tested	8	3.8

SPECIMEN NUMBER 4

<i>Klebsiella pneumoniae</i>	205	98.6
<i>Klebsiella</i> species	1	0.5
Specimen source not tested	1	0.5
<i>Streptococcus</i> , group B (<i>S. agalactiae</i>)	1	0.5

SPECIMEN NUMBER 5

<i>Streptococcus</i> , group B (<i>S. agalactiae</i>)	196	94.2
No pathogens isolated	3	1.4
<i>Klebsiella pneumoniae</i>	1	0.5
No <i>Neisseria gonorrhoeae</i> isolated	1	0.5
Specimen source not tested	7	3.4

CHLAMYDIA - DIRECT DETECTION

Negative for <i>Chlamydia trachomatis</i>	107	99.0
Positive for <i>Chlamydia trachomatis</i>	1	1.0

GROUP A STREPTOCOCCUS - DIRECT ANTIGEN

Negative for Group A <i>Streptococcus</i>	108	100.0
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