



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Corynebacterium striatum Catalog Number: 0583 Lot Number: 583-24 Reference Number: ATCC® BAA-1293™* Purity: Pure Passage from Reference: 3	Expiration Date: 2019/1/31 Release Information: Quality Control Technologist: Mary L Bowman Release Date: 2017/3/1
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Performance	
Macroscopic Features: Small to medium, circular, convex, entire edge, white, and smooth. Microscopic Features: Short gram positive rods often in characteristic palisade arrangement.	Medium: SBAP Method: Gram Stain (1)

ID System: Vitek ANC (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Catalase (3% Hydrogen Peroxide): positive  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE
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TESTING CERT #2655.01

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Mar 1, 2017 10:47 CST
Printed by: mlb

Isolate Group: 583 24-1

Bench: MB

Card Type: ANC Testing Instrument: 000017919CE3 (15220)

Bionumber: 7323100400015
Organism Quantity:

Comments:	

Identification Information	Card: ANC	Lot Number: 2440202103	Expires: Jun 16, 2018 13:00 CDT
	Completed: Feb 28, 2017 22:54 CST	Status: Final	Analysis Time: 6.00 hours
Selected Organism	99% Probability Corynebacterium striatum		Confidence: Excellent identification
	Bionumber: 7323100400015		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details																	
4	dGAL	+	5	LeuA	+	6	ELLM	+	7	PheA	+	8	ProA	+	10	PyrA	-
11	dCEL	-	13	TyrA	+	15	APPA	-	18	dGLU	+	20	dMNE	+	22	dMAL	-
28	SAC	+	30	ARB	-	33	NAG	-	34	BGLUi	-	36	URE	-	37	BGURi	-
39	BGALi	-	41	AARA	-	42	AGALi	-	43	BMAN	-	44	ARG	-	45	PVATE	+
51	MTE	-	53	ESC	-	54	BdFUC	-	55	BNAGi	-	56	AMANi	-	57	AIFUC	-
59	PHOS	-	60	IARA	-	61	dRIB2	-	62	OPS	+	63	AARAF	-	64	dXYL	-
	GRAM	+		MORPH	-		AERO	+									

Installed VITEK 2 Systems Version: 07.01
MIC Interpretation Guideline:
AES Parameter Set Name:

Therapeutic Interpretation Guideline:
AES Parameter Last Modified:



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Listeria monocytogenes (serotype 4b) Catalog Number: 0687 Lot Number: 687-179 Reference Number: ATCC® 19115™* Purity: Pure Passage from Reference: 3	Expiration Date: 2018/10/31 Release Information: Quality Control Technologist: Tracy A Blenker Release Date: 2016/12/20
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Performance	
Macroscopic Features: Small, circular, translucent, with weak beta hemolysis. Microscopic Features: Regular, short, gram positive rods with rounded ends.	Medium: SBAP Method: Gram Stain (1)

ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Catalase (3% Hydrogen Peroxide): positive (1) Purple Broth W/Rhamnose: positive (1) Purple Broth W/Xylose: negative  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE
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Meaning of Score Values

Range	Description	Symbols	Color
2.300 ... 3.000	highly probable species identification	(+++)	green
2.000 ... 2.299	secure genus identification, probable species identification	(++)	green
1.700 ... 1.999	probable genus identification	(+)	yellow
0.000 ... 1.699	not reliable identification	(-)	red

Meaning of Consistency Categories (A – C)

Category	Description
A	Species Consistency: The best match was classified as 'green' (see above). Further 'green' matches are of the same species as the first one. Further 'yellow' matches are at least of the same genus as the first one.
B	Genus Consistency: The best match was classified as 'green' or 'yellow' (see above). Further 'green' or 'yellow' matches have at least the same genus as the first one. The conditions of species consistency are not fulfilled.
C	No Consistency: Neither species nor genus consistency (Please check for synonyms of names or microbial mixture).

Analyte Name: Listeria monocytogenes (serotype 4b)
 Analyte Description: 0687
 Analyte ID: 687-179
 Analyte Creation Date/Time: 2016-12-14T11:35:11.340 TB
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, IVD, Listeria
 Applied Taxonomy Tree:

Analyte Name	Analyte ID	Organism (best match)	Score Value
A7(+++) (B)	687-179	Listeria monocytogenes	2.38

Comments:

Extraction must be performed to permit reliable species identification.

Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

<p>Specifications Microorganism Name: Rhodococcus equi Catalog Number: 0697 Lot Number: 697-63 Reference Number: ATCC® 6939™* Purity: Pure Passage from Reference: 3</p>	<p>Expiration Date: 2018/11/30 Release Information: Quality Control Technologist: Christine Condon Release Date: 2017/2/9</p>
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Performance	
<p>Macroscopic Features: Small to medium, circular, convex, entire edge, cream to white and turning pale peach as culture ages, glistening, mucoid and smooth. Colonies are weakly beta hemolytic and zones may increase to varying sizes as culture ages.</p> <p>Microscopic Features: Gram positive, rod to coccus, elementary branching may be observed at early stages of growth.</p>	<p>Medium: SBAP</p> <p>Method: Gram Stain (1)</p>

<p>ID System: MALDI-TOF See attached ID System results document.</p>	<p>Other Features/ Challenges: Results (1) Catalase (3% Hydrogen Peroxide): positive Urea slant: positive (1) Purple Broth W/Dextrose: negative (1) Purple Broth W/Lactose: negative Phenol Red Broth w/ Maltose: negative (1) Purple Broth W/Sucrose: negative</p> <div style="text-align: center;">  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE </div>
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Meaning of Score Values

Range	Interpretation	Symbols	Color
2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

Category	Interpretation
(A)	High consistency: The best match is a high-confidence identification. The second-best match is (1) a high-confidence identification in which the species is identical to the best match, (2) a low-confidence identification in which the species or genus is identical to the best match, or (3) a non-identification.
(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Rhodococcus equi
 Sample Description: 0697
 Sample ID: 697-63
 Sample Creation Date/Time: 2017-01-12T15:07:53.624 CC
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
C2(++) (A)	697-63	Rhodococcus equi	2.123

Comments:

synonym of Corynebacterium hoagii



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Saccharomyces cerevisiae Catalog Number: 0699 Lot Number: 699-104 Reference Number: ATCC® 9763™* Purity: Pure Passage from Reference: 2	Expiration Date: 2019/5/31 Release Information: Quality Control Technologist: Mary L Bowman Release Date: 2017/6/29
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Performance	
Macroscopic Features: Medium to large, circular, dull, white to cream colonies. Microscopic Features: Gram positive, yeast cells, oval to spherical, spores are gram negative when present.	Medium: SAB DEX EMMONS Method: Gram Stain (1)

ID System: MALDI-TOF See attached ID System results document.
 Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE

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TESTING CERT #2655.01



Meaning of Score Values

Range	Interpretation	Symbols	Color
2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

Category	Interpretation
(A)	High consistency: The best match is a high-confidence identification. The second-best match is (1) a high-confidence identification in which the species is identical to the best match, (2) a low-confidence identification in which the species or genus is identical to the best match, or (3) a non-identification.
(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Saccharomyces cerevisiae
 Sample Description: 0699
 Sample ID: 699-104
 Sample Creation Date/Time: 2017-06-28T15:05:16.249 MB
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
C7 (+++)(A)	699-104	Saccharomyces cerevisiae	2.12

Comments:

N/A



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Candida parapsilosis Catalog Number: 0726 Lot Number: 726-46 Reference Number: ATCC® 22019™* Purity: Pure Passage from Reference: 3	Expiration Date: 2019/4/30 Release Information: Quality Control Technologist: Christine Condon Release Date: 2017/6/30
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Performance	
Macroscopic Features: Small, white, convex, circular colonies. Microscopic Features: Gram positive yeast cells.	Medium: Nutrient Method: Gram Stain (1)

ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Germ Tube Test: negative (1) Chlamyospore production: negative  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE
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TESTING CERT #2655.01



Meaning of Score Values

Range	Interpretation	Symbols	Color
2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

Category	Interpretation
(A)	High consistency: The best match is a high-confidence identification. The second-best match is (1) a high-confidence identification in which the species is identical to the best match, (2) a low-confidence identification in which the species or genus is identical to the best match, or (3) a non-identification.
(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Candida parapsilosis
 Sample Description: 0726
 Sample ID: 726-46
 Sample Creation Date/Time: 2017-06-27T13:14:48.914 CC
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
H8 (+++)(A)	726-46	Candida parapsilosis	2.14

Comments:

N/A



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Enterobacter hormaechei Catalog Number: 0755 Lot Number: 755-44 Reference Number: ATCC® 700323™* Purity: Pure Passage from Reference: 3	Expiration Date: 2018/11/30 Release Information: Quality Control Technologist: Kieshia L Negen Release Date: 2017/2/1
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Performance	
Macroscopic Features: Small to large, circular, convex, entire edge, gray, glistening, opaque. Microscopic Features: Short, plump, gram negative, straight rod.	Medium: SBAP Method: Gram Stain (1)
ID System: Vitek GN (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Oxidase (Kovacs): negative  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Jan 19, 2017 12:06 CST
Printed by: kln

Isolate Group: 755 44-1

Bench: KN

Card Type: GN Testing Instrument: 000017919CE3 (15220)

Bionumber: 2627634553533010
Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241370540	Expires: Feb 4, 2017 12:00 CST
	Completed: Jan 18, 2017 15:56 CST	Status: Final	Analysis Time: 4.75 hours
Selected Organism	98% Probability Enterobacter hormaechei		Confidence: Excellent identification
	Bionumber: 2627634553533010		

SRF Organism

Analysis Organisms and Tests to Separate:

Enterobacter cloacae complex	
Enterobacter kobei	UREASE(83),LACTOSE(88),MOB(82),dSORBITOL(94),
Enterobacter hormaechei	UREASE(87),MOB(52),dSORBITOL(0),
Enterobacter cloacae ssp cloacae	UREASE(100),LACTOSE(30),MOB(99),dSORBITOL(100),
Enterobacter cloacae ssp dissolvens	UREASE(100),MOB(0),dSORBITOL(100),
Enterobacter ludwigii	UREASE(0),LACTOSE(60),MOB(100),dSORBITOL(100),

Analysis Messages:

Contraindicating Typical Biopattern(s)

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Jan 19, 2017 12:06 CST
Printed by: kln

Isolate Group: 755 44-1

Bench: KN

Card Type: GN Testing Instrument: 000017919CE3 (15220)

Bionumber: 2627634553533010

Organism Quantity:

Biochemical Details

2	APPA	-	3	ADO	+	4	PyrA	-	5	IARL	-	7	dCEL	+	9	BGAL	+
10	H2S	-	11	BNAG	+	12	AGLTp	-	13	dGLU	+	14	GGT	+	15	OFF	+
17	BGLU	-	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	-
23	ProA	-	26	LIP	-	27	PLE	+	29	TyrA	+	31	URE	-	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	+	39	5KG	-
40	ILATk	+	41	AGLU	-	42	SUCT	+	43	NAGA	+	44	AGAL	+	45	PHOS	-
46	GlyA	+	47	ODC	+	48	LDC	-	53	IHI Sa	-	56	CMT	-	57	BGUR	-
58	O129R	+	59	GGAA	-	61	IMLTa	-	62	ELLM	-	64	ILATa	-			

Installed VITEK 2 Systems Version: 07.01

MIC Interpretation Guideline:

AES Parameter Set Name:

Therapeutic Interpretation Guideline:

AES Parameter Last Modified:

Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Enterococcus casseliflavus Catalog Number: 0761 Lot Number: 761-45 Reference Number: ATCC® 700327™* Purity: Pure Passage from Reference: 3	Expiration Date: 2018/11/30 Release Information: Quality Control Technologist: Kieshia L Negen Release Date: 2017/1/19
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Performance	
Macroscopic Features: Medium to large, circular, convex, yellow/gray, glistening, translucent, slightly alpha hemolytic. Microscopic Features: Gram positive cocci.	Medium: SBAP Method: Gram Stain (1)

ID System: Vitek GP (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Catalase (3% Hydrogen Peroxide): negative  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE
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TESTING CERT #2655.01

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Jan 19, 2017 11:49 CST
Printed by: kln

Isolate Group: 761 45-1

Bench: KN

Card Type: GP Testing Instrument: 000017919CE3 (15220)

Bionumber: 534303265773771

Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242399410	Expires: Nov 20, 2017 12:00 CST
	Completed: Jan 18, 2017 16:56 CST	Status: Final	Analysis Time: 5.75 hours
Selected Organism	97% Probability Enterococcus casseliflavus		
	Bionumber: 534303265773771	Confidence: Excellent identification	
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Enterococcus casseliflavus AMAN(24),			

Biochemical Details																	
2	AMY	+	4	PIPLC	-	5	dXYL	+	8	ADH1	+	9	BGAL	+	11	AGLU	-
13	APPA	-	14	CDEX	-	15	AspA	+	16	BGAR	+	17	AMAN	+	19	PHOS	-
20	LeuA	-	23	ProA	-	24	BGURr	-	25	AGAL	+	26	PyrA	+	27	BGUR	-
28	AlaA	-	29	TyrA	+	30	dSOR	-	31	URE	-	32	POLYB	+	37	dGAL	+
38	dRIB	+	39	ILATk	-	42	LAC	+	44	NAG	+	45	dMAL	+	46	BACI	+
47	NOVO	+	50	NC6.5	+	52	dMAN	+	53	dMNE	+	54	MBdG	+	56	PUL	-
57	dRAF	+	58	O129R	+	59	SAL	+	60	SAC	+	62	dTRE	+	63	ADH2s	+
64	OPTO	+															

Installed VITEK 2 Systems Version: 07.01

MIC Interpretation Guideline:

AES Parameter Set Name:

Therapeutic Interpretation Guideline:

AES Parameter Last Modified:

Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Klebsiella pneumoniae subsp. pneumoniae Catalog Number: 0784 Lot Number: 784-50 Reference Number: ATCC® 700603™* Purity: Pure Passage from Reference: 3	Expiration Date: 2019/1/31 Release Information: Quality Control Technologist: Kieshia L Negen Release Date: 2017/3/27
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Performance	
Macroscopic Features: Two colony types possible: Large, circular, convex, entire edge, gray, glistening. Large, circular, convex, entire edge, cream / off white, mucoid, glistening. Microscopic Features: Gram negative short, plump, straight rod.	Medium: SBAP Method: Gram Stain (1)
ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Oxidase (Kovacs): negative (1) Ceftazidime (30 mcg - Disk Susceptibility): 10 - 18 mm (1) Ceftazidime/Clavulanic acid (30/10 mcg - Disk Susceptibility): \geq 5 mm CAZ zone (1) Cefotaxime (30 mcg - Disk Susceptibility): 17 - 25 mm (1) Cefotaxime/Clavulanic acid (30/10 mcg - Disk Susceptibility): \geq 3 mm CTX zone  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE

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2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

Category	Interpretation
(A)	High consistency: The best match is a high-confidence identification. The second-best match is (1) a high-confidence identification in which the species is identical to the best match, (2) a low-confidence identification in which the species or genus is identical to the best match, or (3) a non-identification.
(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Klebsiella pneumoniae subsp. pneumoniae
 Sample Description: 0784
 Sample ID: 784-50
 Sample Creation Date/Time: 2017-03-13T10:38:30.720KN
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
A12 (+++)(A)	784-50	Klebsiella pneumoniae	2.42

Comments:

N/A



Meaning of Score Values

Range	Interpretation	Symbols	Color
2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

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(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Listeria ivanovii subsp. ivanovii
 Sample Description: 0815
 Sample ID: 815-47
 Sample Creation Date/Time: 2017-03-13T10:38:30.715KN
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
A7 (+++)(A)	815-47	Listeria ivanovii	2.46

Comments:

Extraction must be performed to permit reliable species identification.



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Staphylococcus aureus subsp. aureus Catalog Number: 0827 Lot Number: 827-199 Reference Number: ATCC® 6538P™* Purity: Pure Passage from Reference: 3	Expiration Date: 2019/1/31 Release Information: Quality Control Technologist: Carol J Stanoch Release Date: 2017/3/7
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Performance	
Macroscopic Features: Medium to large, convex, pale yellow and some gold, creamy, opaque, beta hemolytic. Microscopic Features: Gram positive cocci occurring singly, in pairs and in irregular clusters.	Medium: SBAP Method: Gram Stain (1)

ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Catalase(3% Hydrogen Peroxide): positive (1) Coagulase(rabbit plasma-tube): positive (1) Beta Lactamase (Cefinase Disk): negative  Amanda Kuperus Quality Control Manager AUTHORIZED SIGNATURE
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Disclaimer: The last digit(s) of the lot number appearing on the product label and packing slip are merely a packaging event number. The lot number displayed on this certificate is the actual base lot number.

Note for Vitek®: Although the Vitek® panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods.

⚠ Refer to the enclosed product insert for instructions, intended use and hazard/safety information.

Individual products are traceable to a recognized culture collection.



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(1) These tests are accredited to ISO/IEC 17025:2005.

TESTING CERT #2655.01



Meaning of Score Values

Range	Interpretation	Symbols	Color
2.00 - 3.00	High-confidence identification	(+++)	green
1.70 - 1.99	Low-confidence identification	(+)	yellow
0.00 - 1.69	No Organism Identification Possible	(-)	red

Meaning of Consistency Categories (A - C)

Category	Interpretation
(A)	High consistency: The best match is a high-confidence identification. The second-best match is (1) a high-confidence identification in which the species is identical to the best match, (2) a low-confidence identification in which the species or genus is identical to the best match, or (3) a non-identification.
(B)	Low consistency: The requirements for high consistency are not met. The best match is a high- or low-confidence identification. The second-best match is (1) a high- or low-confidence identification in which the genus is identical to the best match or (2) a non-identification.
(C)	No consistency: The requirements for high or low consistency are not met.

Sample Name: Staphylococcus aureus subsp. aureus
 Sample Description: 0827
 Sample ID: 827-199
 Sample Creation Date/Time: 2017-02-28T13:09:51.278 cs
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
D4 (+++)(A)	827-199	Staphylococcus aureus	2.42

Comments:

N/A