



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Staphylococcus aureus subsp. aureus Catalog Number: 0485 Lot Number: 485-322 Reference Number: ATCC® 6538™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 2	Expiration Date: 2017/12/31 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/1/15
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Performance	
Macroscopic Features: Medium to large, convex, circular, glistening, smooth, creamy, opaque, beta hemolytic - both light gold and darker gold colonies may be present.	Medium: SBAP
Microscopic Features: Gram positive cocci occurring singly, in pairs and in irregular clusters.	Method: Gram Stain (1)
ID System: Vitek GP (1) 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  Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Microbiologics

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Jan 13, 2016 13:13 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 485 322-1

Bench: CC

Card Type: GP Testing Instrument: 00000A6D6328 (1116)

Bionumber: 010402062561231

Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242368410	Expires: Jan 14, 2017 12:00 CST
	Completed: Jan 12, 2016 17:48 CST	Status: Final	Analysis Time: 4.00 hours
Selected Organism	99% Probability Staphylococcus aureus Bionumber: 010402062561231 Confidence: Excellent identification		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

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: Proteus mirabilis Catalog Number: 0607 Lot Number: 607-59 Reference Number: ATCC® 7002™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Tanner E Rothstein Release Date: 2016/4/14
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Performance	
Macroscopic Features: Gray colonies with swarming. Microscopic Features: 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  Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Microbiologics

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Apr 14, 2016 07:49 CDT
Printed by: ter
Report Version: 1 of 1

Isolate Group: 607 59-1

Bench: TR

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

Bionumber: 0017000140442200

Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241370540	Expires: Feb 4, 2017 12:00 CST
	Completed: Apr 13, 2016 15:41 CDT	Status: Final	Analysis Time: 5.00 hours
Selected Organism	99% Probability Proteus mirabilis		
	Bionumber: 0017000140442200		Confidence: Excellent identification
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

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	IHISa	-	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: <i>Listeria monocytogenes</i> (serotype 4b) Catalog Number: 0687 Lot Number: 687-164 Reference Number: ATCC® 19115™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2018/4/30 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/7/19
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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  Brad Goskowitz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Bruker Daltonik MALDI Biotyper Classification Results



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: 687-164
 Analyte Creation Date/Time: 2016-07-07T16:12:11.862 CC
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, IVD, Listeria
 Applied Taxonomy Tree:

Rank(Quality)	Matched Pattern	ScoreValue	NCBIIdentifier
1(+++)	Listeria monocytogenes CCUG 32964A CCUG	2.434	1639
2(+++)	Listeria monocytogenes CCUG 61052 CCUG	2.433	1639
3(+++)	Listeria monocytogenes CCUG 32843 CCUG	2.43	1639
4(+++)	Listeria monocytogenes Mb19348 1 CHB	2.425	1639
5(+++)	Listeria monocytogenes CCUG 59664 CCUG	2.36	1639
6(+++)	Listeria monocytogenes CCUG 31527 CCUG	2.358	1639
7(+++)	Listeria monocytogenes CCUG 35751 CCUG	2.347	1639
8(+++)	Listeria innocua CCUG 44511 CCUG	2.324	1642
9(+++)	Listeria monocytogenes ser4B ATCC 19115 THL	2.306	1639
10(++)	Listeria monocytogenes CCUG 49753 CCUG	2.29	1639

Comments:

Extraction must be performed to permit reliable species identification.



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Proteus mirabilis Catalog Number: 0690 Lot Number: 690-30 Reference Number: ATCC® 25933™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2018/5/31 Release Information: Quality Control Technologist: Tracy A Blenker Release Date: 2016/7/26
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Performance	
Macroscopic Features: Two types of colonies; one is gray with swarming and the other is white, glistening and swarming after 3-4 days.	Medium: SBAP
Microscopic Features: Gram negative straight rod.	Method: Gram Stain (1)
ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Oxidase (Kovacs): negative
	 Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Bruker Daltonik MALDI Biotyper Classification Results



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: Proteus mirabilis
 Analyte Description: 0690
 Analyte ID: 690-30
 Analyte Creation Date/Time: 2016-07-20T11:35:18.179 TB
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, IVD, Listeria
 Applied Taxonomy Tree:

Rank(Quality)	Matched Pattern	ScoreValue	NCBIIdentifier
1(+++)	Proteus mirabilis RV412_A1_2010_06b LBK	2.458	584
2(+++)	Proteus mirabilis 13210_1 CHB	2.382	584
3(+++)	Proteus mirabilis (PX) 22086112 MLD	2.346	584
4(+++)	Proteus mirabilis 9482_2 CHB	2.328	584
5(++)	Proteus mirabilis DSM 788 DSM	2.282	584
6(++)	Proteus mirabilis DSM 30115 DSM	2.257	584
7(++)	Proteus mirabilis DSM 18254 DSM	2.221	584
8(++)	Proteus mirabilis DSM 50903 DSM	2.172	584
9(++)	Proteus mirabilis DSM 46227 DSM	2.112	584
10(-)	Proteus vulgaris B156 UFL	1.552	585

Comments:

N/A



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Candida parapsilosis Catalog Number: 0726 Lot Number: 726-42 Reference Number: ATCC® 22019™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 2	Expiration Date: 2018/5/31 Release Information: Quality Control Technologist: Jennifer Holub Release Date: 2016/7/18
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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: Vitek YST (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Germ Tube Test: negative (1) Chlamydospore production: negative  Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Microbiologics

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Jul 13, 2016 15:54 CDT
Printed by: jrh

Isolate Group: 72642-1

Bench: JH

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

Bionumber: 6512544245133371

Organism Quantity:

Comments:	

Identification Information	Card:	YST	Lot Number:	243385220	Expires:	Jul 1, 2017 13:00 CDT
	Completed:	Jul 13, 2016 06:51 CDT	Status:	Final	Analysis Time:	18.50 hours
Selected Organism	98% Probability Candida parapsilosis Bionumber: 6512544245133371 Confidence: Excellent identification					
SRF Organism						
Analysis Organisms and Tests to Separate:						
Analysis Messages:						
Contraindicating Typical Biopattern(s) Candida parapsilosis IMLTa(17),						

Biochemical Details

3	LysA	-	4	IMLTa	+	5	LeuA	+	7	ARG	+	10	ERYa	-	12	GLYLa	+
13	TyrA	+	14	BNAG	-	15	ARBa	-	18	AMYa	-	19	dGALa	+	20	GENa	-
21	dGLUa	+	23	LACa	-	24	MAdGa	+	26	dCELa	-	27	GGT	-	28	dMALa	+
29	dRAFa	-	30	NAGA1	-	32	dMNEa	+	33	dMELa	-	34	dMLZa	+	38	ISBEa	-
39	IRHAa	-	40	XLTa	-	42	dSORa	+	44	SACa	+	45	URE	-	46	AGLU	+
47	dTURa	+	48	dTREa	-	49	NO3a	-	51	IARa	+	52	dGATa	+	53	ESC	-
54	IGLTa	+	55	dXYLa	+	56	LATa	-	58	ACEa	+	59	CITa	+	60	GRTas	(-)
61	IPROa	+	62	2KGa	+	63	NAGa	+	64	dGNTa	+						

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: Enterobacter hormaechei Catalog Number: 0755 Lot Number: 755-42 Reference Number: ATCC® 700323™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2018/5/31 Release Information: Quality Control Technologist: Tracy A Blenker Release Date: 2016/8/15
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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  Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Aug 8, 2016 08:06 CDT
Printed by: tab

Isolate Group: 755 42-1

Bench: TB

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

Bionumber: 2627634553533010

Organism Quantity:

Comments:	
	Same bionumber as previous lots

Identification Information	Card: GN	Lot Number: 241370540	Expires: Feb 4, 2017 12:00 CST
	Completed: Aug 2, 2016 14:32 CDT	Status: Final	Analysis Time: 5.00 hours
Selected Organism	98% Probability Enterobacter hormaechei		
	Bionumber: 2627634553533010	Confidence: Excellent identification	
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)			

Microbiologics

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Aug 8, 2016 08:06 CDT
Printed by: tab

Isolate Group: 755 42-1

Bench: TB

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

Bionumber: 262763455353010

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	IHISa	-	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: Stenotrophomonas maltophilia Catalog Number: 0759 Lot Number: 759-39 Reference Number: ATCC® 17666™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 3	Expiration Date: 2018/6/30 Release Information: Quality Control Technologist: Mary L Bowman Release Date: 2016/9/6
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Performance	
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Straight to slightly curved gram negative 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  Brad Goskowicz, President AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

Microbiologics

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Sep 6, 2016 08:41 CDT
Printed by: mlb

Isolate Group: 759 39-1

Bench: MB

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

Bionumber: 1022103003540020

Organism Quantity:

Comments:	
	GN QC OK MB 9/6/16

Identification Information	Card:	GN	Lot Number:	241370540	Expires:	Feb 4, 2017 12:00 CST
	Completed:	Sep 1, 2016 17:59 CDT	Status:	Final	Analysis Time:	4.25 hours
Selected Organism		99% Probability Stenotrophomonas maltophilia Bionumber: 1022103003540020 Confidence: Excellent identification				
SRF Organism						
Analysis Organisms and Tests to Separate:						
Analysis Messages:						
Contraindicating Typical Biopattern(s)						

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	IHISa	-	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: 761-40 Reference Number: ATCC® 700327™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2017/11/30 Release Information: Quality Control Technologist: Marie M Howe Release Date: 2016/1/21
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Performance	
Macroscopic Features: Medium to large, circular, convex, yellow/gray, glistening, translucent, slightly alpha hemolytic.	Medium: SBAP
Microscopic Features: Gram positive cocci.	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  Brad Goskowicz, President AUTHORIZED SIGNATURE

Disclaimer: The last digit(s) of the lot number appearing on the packing slip is 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

Microbiologics

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Jan 15, 2016 08:20 CST
Printed by: mmh
Report Version: 2 of 2

Isolate Group: 761-40
Last Updated: Jan 15, 2016 08:20 CST
Card Type: GP Testing Instrument: 00000A6D6328 (1116)

By: mmh

Bench: MH

Bionumber: 534303265773771
Organism Quantity:

Comments:	
	GP-QC OK 1/15/16 MH

Identification Information	Card: GP	Lot Number: 242368410	Expires: Jan 14, 2017 12:00 CST
	Completed: Jan 14, 2016 18:52 CST	Status: Final	Analysis Time: 6.00 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: Vibrio parahaemolyticus Catalog Number: 0818 Lot Number: 818-64 Reference Number: ATCC® 17802™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2018/1/31 Release Information: Quality Control Technologist: Marie M Howe Release Date: 2016/3/15
Performance	
Macroscopic Features: Large, circular, convex, entire edge, cream, glistening, opaque. Microscopic Features: Gram negative straight or curved rod.	Medium: Marine Agar Method: Gram Stain (1)
ID System: Vitek GN (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Oxidase (Kovacs): positive TCBS agar: growth, green colonies SBAP (growth from pellet): good growth  Brad Goskowicz, President AUTHORIZED SIGNATURE
Disclaimer: The last digit(s) of the lot number appearing on the packing slip is 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.  (*) The ATCC Licensed Derivative Emblem, the ATCC Licensed Derivative word mark and the ATCC catalog marks are trademarks of ATCC. Microbiologics, Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures.  (1) These tests are accredited to ISO/IEC 17025:2005. TESTING CERT #2655.01	

Microbiologics

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 3, 2016 08:13 CST
Printed by: mmh
Report Version: 1 of 1

Isolate Group: 818-64

Bench: MH

Card Type: GN Testing Instrument: 00000A6D6328 (1116)

Bionumber: 5021411240000220

Organism Quantity:

Comments:	

Identification Information	Card:	GN	Lot Number:	241356410	Expires:	Sep 16, 2016 13:00 CDT
	Completed:	Mar 2, 2016 17:39 CST	Status:	Final	Analysis Time:	5.75 hours
Selected Organism	97% Probability Vibrio parahaemolyticus Bionumber: 5021411240000220 Confidence: Excellent identification					
SRF Organism						
Analysis Organisms and Tests to Separate:						
Analysis Messages:						
Contraindicating Typical Biopattern(s)						
Vibrio parahaemolyticus URE(10),						

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	BAIap	-
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	IHISa	-	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: Candida tropicalis Catalog Number: 0847 Lot Number: 847-41 Reference Number: ATCC® 750™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 2	Expiration Date: 2018/3/31 Release Information: Quality Control Technologist: Kieshia L Negen Release Date: 2016/4/26
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Performance	
Macroscopic Features: Small to large cream colored, slightly glistening, convex, circular colonies. Microscopic Features: Gram positive yeast cells.	Medium: Nutrient Method: Gram Stain (1)
ID System: Vitek YST (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Germ Tube Test: negative (1) Chlamydospore production: negative  Brad Goskowitz, President AUTHORIZED SIGNATURE

Disclaimer: The last digit(s) of the lot number appearing on the packing slip is 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.

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TESTING CERT #2655.01

Microbiologics

bioMerieux Customer: 1012555
System #: 521711

Laboratory Report

Printed Apr 26, 2016 16:15 CDT
Printed by: kln
Report Version: 1 of 1

Isolate Group: 847 41-1

Bench: TR

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

Bionumber: 6112544265323771

Organism Quantity:

Comments:	

Identification Information	Card: YST	Lot Number: 243385220	Expires: Jul 1, 2017 13:00 CDT
	Completed: Apr 15, 2016 08:20 CDT	Status: Final	Analysis Time: 18.25 hours
Selected Organism	99% Probability Candida tropicalis		
	Bionumber: 6112544265323771	Confidence: Excellent identification	
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			

Biochemical Details

3	LysA	-	4	IMLTa	+	5	LeuA	+	7	ARG	+	10	ERYa	-	12	GLYLa	-
13	TyrA	(+)	14	BNAG	-	15	ARBa	-	18	AMYa	-	19	dGALa	+	20	GENa	-
21	dGLUa	+	23	LACa	-	24	MAdGa	+	26	dCELa	-	27	GGT	-	28	dMALa	+
29	dRAFa	-	30	NAGA1	-	32	dMNEa	+	33	dMELa	-	34	dMLZa	+	38	ISBEa	-
39	IRHAa	-	40	XLTa	+	42	dSORa	+	44	SACa	+	45	URE	-	46	AGLU	+
47	dTURa	+	48	dTREa	+	49	NO3a	-	51	IARa	-	52	dGATa	+	53	ESC	-
54	IGLTa	+	55	dXYLa	+	56	LATa	-	58	ACEa	+	59	CITa	+	60	GRTas	+
61	IPROa	+	62	2KGa	+	63	NAGa	+	64	dGNTa	+						

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

Therapeutic Interpretation Guideline:
AES Parameter Last Modified: