



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Candida albicans Catalog Number: 0332 Lot Number: 332-104 Reference Number: ATCC® 14053™* 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: Tracy A Blenker Release Date: 2016/2/22
--	---

Performance	
Macroscopic Features: Medium to large, white to cream, waxy, circular, convex, entire edge Microscopic Features: Gram positive, spherical, budding yeast cells	Medium: PDA Method: Gram Stain (1)
ID System: Vitek YST (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Germ Tube Test: positive (1) Chlamydospore production: positive  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 Feb 10, 2016 07:33 CST
Printed by: tab
Report Version: 1 of 1

Isolate Group: 332 104-1

Bench: TB

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

Bionumber: 6102546065327371

Organism Quantity:

Comments:	

Identification Information	Card: YST	Lot Number: 243370420	Expires: Feb 3, 2017 12:00 CST
	Completed: Feb 10, 2016 05:56 CST	Status: Final	Analysis Time: 18.50 hours
Selected Organism	99% Probability Candida albicans		
	Bionumber: 6102546065327371	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	IARaA	-	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: Proteus hauseri Catalog Number: 0355 Lot Number: 355-24 Reference Number: ATCC® 13315™* 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: Marie M Howe Release Date: 2016/3/28	
Performance Macroscopic Features: Small to large, circular, convex, gray, slightly rough, some swarming as SBAP culture ages and some greening of agar may be present. 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 (1) Indole (DMACA Spot Test): positive  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: 1012555
System #: 521711

Laboratory Report

Printed Mar 24, 2016 15:32 CDT
Printed by: jrh
Report Version: 3 of 3

Isolate Group: 355-24
Last Updated: Mar 24, 2016 15:31 CDT
Card Type: GN Testing Instrument: 000017919CE3 (15220)

By: jrh

Bench: MH

Bionumber: 0015200310740201
Organism Quantity:

Comments:	
	ID confirmed trough testing. 3/24/16 MH

Identification Information	Card: GN	Lot Number: 241370540	Expires: Feb 4, 2017 12:00 CST
	Completed: Mar 24, 2016 02:18 CDT	Status: Final	Analysis Time: 10.25 hours
Selected Organism	92% Probability Proteus hauseri Bionumber: 0015200310740201 Confidence: Low discrimination		
SRF Organism			
Analysis Organisms and Tests to Separate:			
Low Discrimination Organism			
Proteus penneri IND(1),JordanTart(89),			
Proteus hauseri IND(99),JordanTart(1),			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Proteus penneri GGT(89),PLE(99),O129R(89),			
Proteus hauseri PLE(97),O129R(98),			

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: Staphylococcus aureus subsp. aureus Catalog Number: 0365 Lot Number: 365-87 Reference Number: ATCC® 29213™* 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: Tanner E Rothstein Release Date: 2016/5/6
--	--

Performance	
Macroscopic Features: Medium to large, convex, white-yellow, 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): positive (1) Ampicillin (10 mcg - Disk Susceptibility): <= 28 mm (1) Penicillin (10 units - Disk Susceptibility): <= 28 mm Urea Agar Slant: positive  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

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: Staphylococcus aureus subsp. aureus
 Analyte Description: 0365
 Analyte ID: 365-87
 Analyte Creation Date/Time: 2016-05-04T12:42:20.579 TR
 Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, IVD, Listeria
 Applied Taxonomy Tree:

Rank (Quality)	Matched Pattern	Score Value	NCBI Identifier
1 (+++)	Staphylococcus aureus ssp aureus DSM 799 DSM	2.369	46170
2 (+++)	Staphylococcus aureus ATCC 29213 THL	2.366	1280
3 (+++)	Staphylococcus aureus ssp aureus DSM 4910 DSM	2.343	46170
4 (+++)	Staphylococcus aureus ssp aureus DSM 346 DSM	2.326	46170
5 (+++)	Staphylococcus aureus ssp aureus DSM 20231T DSM	2.323	46170
6 (++)	Staphylococcus aureus ssp aureus DSM 20232 DSM	2.293	46170
7 (++)	Staphylococcus aureus ATCC 33862 THL	2.27	1280
8 (++)	Staphylococcus aureus ATCC 33591 THL	2.248	1280
9 (++)	Staphylococcus aureus ssp aureus DSM 3463 DSM	2.227	46170
10 (++)	Staphylococcus aureus ATCC 25923 THL	2.21	1280

Comments:

N/A



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Enterococcus faecalis Catalog Number: 0366 Lot Number: 366-238 Reference Number: ATCC® 29212™* 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: Tracy A Blenker Release Date: 2016/2/22
---	--

Performance	
Macroscopic Features: Small to medium, gray/white, translucent, smooth, circular with entire edge Microscopic Features: Gram positive ovoid cells, mostly in pairs or short chains	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 (1) Bile Esculin Agar: positive (1) Streptomycin (300 mcg - Disk Susceptibility): 14 - 20 mm (1) Gentamicin (120 mcg - Disk Susceptibility): 16 - 23 mm (1) SXT (1.25/23.75 - Disk Susceptibility): >= 20 mm BHIA w/Vancomycin (6 mcg/ml): Sensitive  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 Feb 18, 2016 11:32 CST
Printed by: tab
Report Version: 1 of 1

Isolate Group: 366 238-1

Bench: TB

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

Bionumber: 156002661773471

Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242368410	Expires: Jan 14, 2017 12:00 CST
	Completed: Feb 16, 2016 12:52 CST	Status: Final	Analysis Time: 2.50 hours
Selected Organism	99% Probability Enterococcus faecalis		
	Bionumber: 156002661773471	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: Streptococcus agalactiae (group B) Catalog Number: 0370 Lot Number: 370-121 Reference Number: ATCC® 13813™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4		Expiration Date: 2017/10/31 Release Information: Quality Control Technologist: Tracy A Blenker Release Date: 2015/11/24
Performance		
Macroscopic Features: Small to medium, translucent to white with no beta hemolysis Microscopic Features: Gram positive cocci in short to long chains	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 Streptococcus Antiserum Group B: positive  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. ⚠ Refer to the enclosed product insert for instructions, intended use and hazard/safety information. Individual products are traceable to a recognized culture collection.   TESTING CERT #2655.01 (*) 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.		

Microbiologics

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Nov 23, 2015 15:18 CST
Printed by: tab
Report Version: 1 of 1

Isolate Group: 370 121-1

Bench: TB

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

Bionumber: 031450165731471

Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242368410	Expires: Jan 14, 2017 12:00 CST
	Completed: Nov 18, 2015 18:59 CST	Status: Final	Analysis Time: 4.75 hours
Selected Organism	95% Probability Streptococcus agalactiae		
	Bionumber: 031450165731471		Confidence: Very good identification
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Streptococcus agalactiae BGAL(21),AGLU(86),			

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: Streptococcus pyogenes (group A) Catalog Number: 0385 Lot Number: 385-123 Reference Number: ATCC® 19615™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2017/12/31 Release Information: Quality Control Technologist: Marie M Howe Release Date: 2016/2/4
--	---

Performance	
Macroscopic Features: Two colony types, both are circular, convex, entire edge; one is medium & beta hemolytic, other is small and alpha hemolytic, turning to beta as culture ages.	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 Bacitracin differential: Sensitive  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 Feb 4, 2016 08:11 CST
Printed by: mmh
Report Version: 1 of 1

Isolate Group: 385 123-1

Bench: MH

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

Bionumber: 051412360311271

Organism Quantity:

Comments:	

Identification Information	Card: GP	Lot Number: 242368410	Expires: Jan 14, 2017 12:00 CST
	Completed: Feb 3, 2016 19:28 CST	Status: Final	Analysis Time: 5.00 hours
Selected Organism	99% Probability Streptococcus pyogenes		
	Bionumber: 051412360311271	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: Propionibacterium acnes Catalog Number: 0419 Lot Number: 419-135 Reference Number: ATCC® 11827™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2017/10/31 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/1/25
---	--

Performance	
Macroscopic Features: Punctiform to small, white, opaque, glistening, circular colonies becoming larger and yellowish/tan as they age.	Medium: A/R SBAP
Microscopic Features: Small gram positive rods with branching.	Method: Gram Stain (1)
ID System: Vitek ANC (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Nitrate (Broth): positive
	 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 Dec 1, 2015 10:07 CST
Printed by: cmc
Report Version: 2 of 2

Isolate Group: 419 135-1

Bench: CC

Last Updated: Dec 1, 2015 10:07 CST

By: cmc

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

Bionumber: 6703001602401

Organism Quantity:

Comments:	
	Matches previous ID and bionumber.

Identification Information	Card: ANC	Lot Number: 244365710	Expires: Dec 18, 2016 12:00 CST
	Completed: Nov 24, 2015 21:57 CST	Status: Final	Analysis Time: 6.00 hours
Selected Organism	98% Probability Propionibacterium granulosum		
	Bionumber: 6703001602401		Confidence: Excellent identification
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: Proteus mirabilis Catalog Number: 0440 Lot Number: 440-71 Reference Number: ATCC® 12453™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 4	Expiration Date: 2017/10/31 Release Information: Quality Control Technologist: Christine Condon Release Date: 2015/12/1
--	--

Performance	
Macroscopic Features: Large, circular, convex, entire edge, gray, smooth and glistening. Slight SBAP greening of agar and slight beta hemolysis may be seen.	Medium:
Microscopic Features: Gram negative straight rod.	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

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 Nov 25, 2015 11:02 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 440 71-1

Bench: CC

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

Bionumber: 0017000341442201

Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241344640	Expires: May 21, 2016 13:00 CDT
	Completed: Nov 24, 2015 19:43 CST	Status: Final	Analysis Time: 3.75 hours
Selected Organism	99% Probability Proteus mirabilis		
	Bionumber: 0017000341442201		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: Campylobacter jejuni subsp. jejuni Catalog Number: 0481 Lot Number: 481-86 Reference Number: ATCC® 33291™* Purity: < 0.1% Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 2	Expiration Date: 2017/10/31 Release Information: Quality Control Technologist: Christine Condon Release Date: 2015/11/18
---	---

Performance	
Macroscopic Features: Small to medium, circular, convex, entire edge, tan to pinkish, smooth and glistening.; some colonies may be larger and mucoid. Some colonies may exhibit tailing along the streak line.	Medium: Chocolate
Microscopic Features: Slender, spirally curved, gram negative rods.	Method: Gram Stain (1)
ID System: Vitek NH (1) See attached ID System results document.	Other Features/ Challenges: Results (1) Catalase (3% Hydrogen Peroxide): positive (1) Oxidase (Kovacs): positive Rapid Hippurate Hydrolysis: positive Campy Isolation Agar (42 C, MA): Good growth at 48 hrs. Campy Isolation Agar (35 C, MA): Good growth at 48 hrs. Campy Isolation Agar (25 C, MA): No growth at 96 hrs. Motility (Wet Mount): darting-positive  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

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Nov 18, 2015 08:56 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 481 86-1

Bench: CC

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

Bionumber: 0240002122

Organism Quantity:

Comments:	

Identification Information	Card: NH	Lot Number: 245361420	Expires: Nov 5, 2016 13:00 CDT
	Completed: Nov 13, 2015 20:11 CST	Status: Final	Analysis Time: 6.00 hours
Selected Organism	97% Probability Campylobacter jejuni ssp jejuni		
	Bionumber: 0240002122	Confidence: Excellent identification	
SRF Organism			
Analysis Organisms and Tests to Separate:			
Analysis Messages:			
Contraindicating Typical Biopattern(s)			
Campylobacter jejuni ssp jejuni dMLT(84),			

Biochemical Details																	
1	ArgA	-	2	GGT	-	3	LysA	-	4	dGAL	-	5	LeuA	+	6	ELLM	-
7	PheA	-	8	ProA	-	10	PyrA	+	13	TyrA	-	15	APPA	-	18	dGLU	-
19	GLYG	-	20	dMNE	-	22	dMAL	-	28	SAC	-	33	NAG	-	36	URE	-
39	BGALi	-	40	ODC	+	41	AARA	-	45	PVATE	+	46	PHC	-	47	dMLT	-
51	MTE	-	52	Iglm	+	59	PHOS	-	61	dRIB2	-	62	OPS	+	64	dXYL	-

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 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
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
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: 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: