



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Escherichia coli (serotype O145:NM) Catalog Number: 01097 Lot Number: 1097-13 Reference Number: CDC 99-3311 Purity: <0.1% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4		Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/3/8
Performance		
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Short gram negative rods	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 Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O145: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (+) / Shiga toxin 2 (-)  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.		

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 7, 2016 08:45 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 1097 13-1

Bench: CC

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

Bionumber: 0405610540504611
Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241356410	Expires: Sep 16, 2016 13:00 CDT
	Completed: Mar 3, 2016 19:40 CST	Status: Final	Analysis Time: 4.00 hours
Selected Organism	99% Probability Escherichia coli		
	Bionumber: 0405610540504611	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: Escherichia coli (serotype O45:H2) Catalog Number: 01098 Lot Number: 1098-11 Reference Number: CDC 00-3039 Purity: <0.1% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4	Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/3/8
Performance	
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Short gram negative rods	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 Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O45: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (+) / Shiga toxin 2 (-)  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. (1) These tests are accredited to ISO/IEC 17025:2005.  TESTING CERT #2655.01	

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 7, 2016 08:41 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 1098 11-1

Bench: CC

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

Bionumber: 0405610450006611

Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241356410	Expires: Sep 16, 2016 13:00 CDT
	Completed: Mar 3, 2016 18:41 CST	Status: Final	Analysis Time: 3.00 hours
Selected Organism	99% Probability Escherichia coli		
	Bionumber: 0405610450006611		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: Escherichia coli (serotype O121:H19) Catalog Number: 01099 Lot Number: 1099-14 Reference Number: CDC 02-3211 Purity: <0.1% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4		Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/3/24
Performance		
Macroscopic Features: Medium, grey, glossy, circular, convex, entire edge Microscopic Features: Short gram negative rods	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 Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O121: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (-) / Shiga toxin 2 (+)  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. (1) These tests are accredited to ISO/IEC 17025:2005.  TESTING CERT #2655.01		

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 7, 2016 08:45 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 1099 14-1

Bench: CC

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

Bionumber: 0005611544524611
Organism Quantity:

Comments:	

Identification Information	Card:	GN	Lot Number:	241356410	Expires:	Sep 16, 2016 13:00 CDT
	Completed:	Mar 3, 2016 19:41 CST	Status:	Final	Analysis Time:	4.00 hours
Selected Organism	99% Probability		Escherichia coli			
	Bionumber: 0005611544524611			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: Escherichia coli (serotype O26:H11) Catalog Number: 01100 Lot Number: 1100-11 Reference Number: CDC 03-3014 Purity: <0.1% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4		Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/3/8
Performance		
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Short gram negative rods	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 Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O26: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (+) / Shiga toxin 2 (+)  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. (1) These tests are accredited to ISO/IEC 17025:2005.  TESTING CERT #2655.01		

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 7, 2016 08:43 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 1100 11-1

Bench: CC

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

Bionumber: 0405610450006611
Organism Quantity:

Comments:	

Identification Information	Card: GN	Lot Number: 241356410	Expires: Sep 16, 2016 13:00 CDT
	Completed: Mar 3, 2016 18:57 CST	Status: Final	Analysis Time: 3.25 hours
Selected Organism	99% Probability Escherichia coli		
	Bionumber: 0405610450006611	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: Escherichia coli (serotype O103:H11) Catalog Number: 01101 Lot Number: 1101-12 Reference Number: CDC 06-3008 Purity: > 99.9% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4		Expiration Date: 2018/6/30 Release Information: Quality Control Technologist: Tracy A Blenker Release Date: 2016/7/5
Performance		
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Short gram negative rods	Medium: SBAP Method: Gram Stain (1)	
ID System: MALDI-TOF See attached ID System results document.	Other Features/ Challenges: Results (1) Oxidase (Kovacs): negative Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O103: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (+) / Shiga toxin 2 (-)  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. (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: Escherichia coli (serotype O103:H11)
 Analyte Description: 01101
 Analyte ID: 1101-12
 Analyte Creation Date/Time: 2016-06-28T15:41:02.058 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(+++)	Escherichia coli RV412 A1 2010 06a LBK	2.428	562
2(+++)	Escherichia coli DSM 682 DSM	2.389	562
3(+++)	Escherichia coli DSM 1576 DSM	2.373	562
4(++)	Escherichia coli DH5alpha BRL	2.272	562
5(++)	Escherichia coli MB11464 1 CHB	2.247	562
6(++)	Escherichia coli ATCC 25922 THL	2.173	562
7(++)	Escherichia coli DSM 1103 QC DSM	2.092	562
8(++)	Escherichia coli ESBL EA RSS 1528T CHB	2.078	562
9(++)	Escherichia coli Nissl VML	2.072	562
10(++)	Escherichia coli ATCC 25922 CHB	2.002	562

Comments:

closely related to Shigella and not definitely distinguishable at the moment



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications Microorganism Name: Escherichia coli (serotype O111:H8) Catalog Number: 01102 Lot Number: 1102-11 Reference Number: CDC 2010C-3114 Purity: <0.1% of Total Pellet CFU Recovery: >1000 CFUs per pellet Passage from Reference: 4	Expiration Date: 2018/2/28 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/3/9
Performance	
Macroscopic Features: Medium to large, circular, convex, entire edge, gray, glistening. Microscopic Features: Short gram negative rods	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 Beta-glucuronidase (E. coli Broth w/MUG): positive E. coli OK O antiserum O111: positive Immunocard STAT! EHEC Kit: Shiga toxin 1 (+) / Shiga toxin 2 (+)  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. (1) These tests are accredited to ISO/IEC 17025:2005.  TESTING CERT #2655.01	

bioMerieux Customer: 05871
System #: C21105

Laboratory Report

Printed Mar 7, 2016 08:43 CST
Printed by: cmc
Report Version: 1 of 1

Isolate Group: 1102 11-1

Bench: CC

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

Bionumber: 0405610450520611

Organism Quantity:

Comments:	

Identification Information		Card: GN	Lot Number: 241356410	Expires: Sep 16, 2016 13:00 CDT
		Completed: Mar 3, 2016 19:41 CST	Status: Final	Analysis Time: 4.00 hours
Selected Organism		99% Probability Escherichia coli		
		Bionumber: 0405610450520611		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: Escherichia coli (serotype O157:H7) Catalog Number: 0617 Lot Number: 617-91 Reference Number: ATCC® 35150™* Purity: > 99.9% of Total Pellet CFU Recovery: > 1000 CFUs per Pellet Passage from Reference: 3	Expiration Date: 2018/9/30 Release Information: Quality Control Technologist: Christine Condon Release Date: 2016/11/28
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Performance	
Macroscopic Features: Medium to large, gray, entire, glistening, smooth, convex. Microscopic Features: Gram negative 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 MacConkey w/sorbitol: negative (good growth of colorless colonies/sorbitol negative) Beta-glucuronidase (E. coli Broth w/MUG): negative (1) E. coli O157 Test (RIM Latex Test): positive (1) E. coli H7 Test (RIM Latex Test): positive  Brad Goskowicz, President AUTHORIZED SIGNATURE

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⚠ 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

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: Escherichia coli (serotype O157:H7)
 Analyte Description: 0617
 Analyte ID: 617-91
 Analyte Creation Date/Time: 2016-11-18T15:34:35.783 CC
 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
B11(+++) (A)	617-91	Escherichia coli	2.475

Comments:

closely related to Shigella and not definitely distinguishable at the moment