



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

|                                                                                                                                                                                                                                           |                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Campylobacter lari<br><b>Catalog Number:</b> 01132<br><b>Lot Number:</b> 1132-07<br><b>Reference Number:</b> ATCC® 35221™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 2 | <b>Expiration Date:</b> 2019/1/31<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Mary L Bowman<br><b>Release Date:</b> 2017/3/31 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Small to medium sized, circular in shape with entire edges. Colorless to grey to slightly tan/olive green, shiny | <b>Medium:</b><br>Chocolate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Microscopic Features:</b><br>Gram negative rods (long, thin)                                                                                  | <b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ID System:</b> MALDI-TOF<br>See attached ID System results document.                                                                          | <b>Other Features/ Challenges: Results</b><br>(1) Catalase (3% Hydrogen Peroxide): positive<br>(1) Oxidase (Kovacs): positive<br>Rapid Hippurate Hydrolysis: negative<br>Campy Isolation Agar (42 C, MA): Good growth<br>Campy Isolation Agar (35 C, MA): Good growth<br>Campy Isolation Agar (25 C, MA): No growth at 72 hours<br>Motility (Wet Mount): darting-positive<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |

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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       | 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)      | <b>High consistency:</b> 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)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Campylobacter lari  
 Sample Description: 01132  
 Sample ID: 1132-07  
 Sample Creation Date/Time: 2017-03-23T14:49:30.657 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 |
|-----------------|-----------|-----------------------|-------------|
| A11<br>(+++)(A) | 1132-07   | Campylobacter lari    | 2.39        |

Comments:

N/A



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**Specifications**

**Microorganism Name:** Escherichia coli  
**Catalog Number:** 0335  
**Lot Number:** 335-219  
**Reference Number:** ATCC® 25922™\*  
**Purity:** Pure  
**Passage from Reference:** 3

**Expiration Date:** 2018/11/30

**Release Information:**

**Quality Control Technologist:** Christine Condon

**Release Date:** 2017/1/23

**Performance**

**Macroscopic Features:**

2 colony types, both are gray & beta hemolytic; one is circular to irregular, convex, slightly erose edge & smooth; other is larger, irregular, low convex, erose edge & rough

**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

Beta-glucuronidase (E. coli Broth w/MUG): positive

(1) Ampicillin (10 mcg - Disk Susceptibility): 16 - 22 mm

(1) Gentamicin (10 mcg - Disk Susceptibility): 19 - 26 mm

(1) SXT (1.25/23.75 mcg - Disk Susceptibility): 23 - 29 mm

Amanda Kuperus

Quality Control Manager

AUTHORIZED SIGNATURE

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## Meaning of Consistency Categories (A - C)

| Category | Interpretation                                                                                                                                                                                                                                                                                                                 |
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| (B)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Escherichia coli  
 Sample Description: 0335  
 Sample ID: 335-219  
 Sample Creation Date/Time: 2017-01-12T15:07:53.975 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 |
|---------------------------------|-----------|----------------------------------|-------------|
| <a href="#">E1( +++ ) ( A )</a> | 335-219   | <a href="#">Escherichia coli</a> | 2.508       |

Comments:

closely related to Shigella and not definitely distinguishable at the moment



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Salmonella enterica subsp. enterica serovar typhimurium<br><b>Catalog Number:</b> 0363<br><b>Lot Number:</b> 363-265<br><b>Reference Number:</b> ATCC® 14028™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>Expiration Date:</b> 2018/12/31<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Christine Condon<br><b>Release Date:</b> 2017/2/24                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Performance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Macroscopic Features:</b><br>Medium, gray/white, circular, slightly irregular edges, convex colonies<br><b>Microscopic Features:</b><br>Gram negative straight rods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <b>Medium:</b><br>SBAP<br><b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ID System:</b> MALDI-TOF<br>See attached ID System results document.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Other Features/ Challenges: Results</b><br>(1) Oxidase (Kovacs): negative<br>Hektoen Enteric agar: good growth, blue-green colonies with black centers<br>(1) Salmonella O antiserum Factor O:4 (Included in group B): positive<br>(1) Salmonella O antiserum Factor O:5 (Included in group B): positive<br>(1) Salmonella O antiserum Factor O:12 (Included in group B): positive<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |
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| 0.00 - 1.69 | No Organism Identification Possible | (-)     | red    |

## Meaning of Consistency Categories (A - C)

| Category | Interpretation                                                                                                                                                                                                                                                                                                                 |
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| (B)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Salmonella enterica subsp. enterica serovar Typhimurium  
 Sample Description: 0363  
 Sample ID: 363-265  
 Sample Creation Date/Time: 2017-02-10T10:48:31.181 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 |
|----------------|-----------|-----------------------|-------------|
| F2<br>(+++)(A) | 363-265   | Salmonella sp         | 2.40        |

Comments:

Salmonella can only be identified on genus level.



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|                                                                                                                                                                                                                                                 |                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Klebsiella pneumoniae<br><b>Catalog Number:</b> 01005<br><b>Lot Number:</b> 1005-22<br><b>Reference Number:</b> ATCC® BAA-1705™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 3 | <b>Expiration Date:</b> 2019/6/30<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Mary L Bowman<br><b>Release Date:</b> 2017/7/17 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                                         |                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Large, circular, convex, entire edge, light gray, glistening and mucoid. A second type that is flatter and less mucoid may be seen. | <b>Medium:</b><br>SBAP                                                                                                                                                                                                                                                        |
| <b>Microscopic Features:</b><br>Short, broad, straight, gram negative bacilli with rounded ends.                                                                    | <b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                              |
| <b>ID System:</b> MALDI-TOF<br>See attached ID System results document.                                                                                             | <b>Other Features/ Challenges: Results</b><br>(1) Oxidase (Kovacs): negative<br>Modified Hodge Test: positive<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |

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| (B)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Klebsiella pneumoniae  
Sample Description: 01005  
Sample ID: 1005-22  
Sample Creation Date/Time: 2017-07-13T12:15:26.004 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 |
|-----------------|-----------|-----------------------|-------------|
| C12<br>(+++)(A) | 1005-22   | Klebsiella pneumoniae | 2.36        |

Comments:

N/A



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|                                                                                                                                                                                                                                                 |                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Klebsiella pneumoniae<br><b>Catalog Number:</b> 01060<br><b>Lot Number:</b> 1060-09<br><b>Reference Number:</b> ATCC® BAA-2146™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 2 | <b>Expiration Date:</b> 2019/4/30<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Christine Condon<br><b>Release Date:</b> 2017/5/8 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Small to medium, grey, glossy, circular, convex, entire edge<br><b>Microscopic Features:</b><br>Gram negative rods. Coccobacillary to medium forms may be present. | <b>Medium:</b><br>SBAP<br><b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                            |
| <b>ID System:</b> MALDI-TOF<br>See attached ID System results document.                                                                                                                            | <b>Other Features/ Challenges: Results</b><br>(1) Oxidase (Kovacs): negative<br>Metallo-beta-lactamase test: positive<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |

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| (C)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Klebsiella pneumoniae  
 Sample Description: 01060  
 Sample ID: 1060-09  
 Sample Creation Date/Time: 2017-05-03T14:37:20.515 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 |
|----------------|-----------|-----------------------|-------------|
| B1<br>(+++)(A) | 1060-09   | Klebsiella pneumoniae | 2.59        |

Comments:

N/A



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|                                                                                                                                                                                                                                                     |                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Staphylococcus saprophyticus<br><b>Catalog Number:</b> 0134<br><b>Lot Number:</b> 134-28<br><b>Reference Number:</b> ATCC® BAA-750™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 3 | <b>Expiration Date:</b> 2018/10/31<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Mary L Bowman<br><b>Release Date:</b> 2016/12/23 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Medium, circular, convex, entire edge, white, glistening<br><b>Microscopic Features:</b><br>Gram positive cocci singly, in pairs and tetrads | <b>Medium:</b><br>SBAP<br><b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                                  |
| <b>ID System:</b> Vitek GP (1)<br>See attached ID System results document.                                                                                                   | <b>Other Features/ Challenges: Results</b><br>(1) Catalase (3% Hydrogen Peroxide): positive<br>(1) Coagulase (rabbit plasma-tube): negative<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |

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TESTING CERT #2655.01

bioMerieux Customer: 1012555  
System #: 521711

## Laboratory Report

Printed Dec 23, 2016 07:33 CST  
Printed by: mlb

Isolate Group: 134 28-1

Bench: MB

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

Bionumber: 020000014670231

Organism Quantity:

|                  |  |
|------------------|--|
| <b>Comments:</b> |  |
|                  |  |
|                  |  |
|                  |  |

|                                           |                                                                                                                    |                       |                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| Identification Information                | Card: GP                                                                                                           | Lot Number: 242399410 | Expires: Nov 20, 2017 12:00 CST |
|                                           | Completed: Dec 22, 2016 16:32 CST                                                                                  | Status: Final         | Analysis Time: 5.00 hours       |
| Selected Organism                         | 99% Probability Staphylococcus saprophyticus<br>Bionumber: 020000014670231<br>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:** *Penicillium chrysogenum*  
**Catalog Number:** 0178  
**Lot Number:** 178-20  
**Reference Number:** ATCC® 10106™\*  
**Purity:** Pure  
**Passage from Reference:** 3

**Expiration Date:** 2018/9/30

**Release Information:**

**Quality Control Technologist:** Mary L Bowman

**Release Date:** 2017/1/23

**Performance**

**Macroscopic Features:**

Rapidly expanding floccose colonies, initially white, turning dark blue-green with age, exudes bright yellow pigment into medium.

**Medium:**

Malt Extract Agar

**Microscopic Features:**

Hyaline septate mycelia that produce hyaline conidiophores. The conidiophores branch into brush-like penicillus. Spores are borne in long chains from terminal sterigmata.

**Method:**

Lactophenol Blue (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

# Bruker Daltonik MALDI Biotyper Classification Results



## 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)      | <b>High consistency:</b> 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)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Penicillium chrysogenum  
 Sample Description: 0178  
 Sample ID: 178-20  
 Sample Creation Date/Time: 2017-01-20T16:41:08.578 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 |
|----------------|-----------|-------------------------|-------------|
| D2<br>(+++)(A) | 178-20    | Penicillium chrysogenum | 2.15        |

Comments:

N/A



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

|                                                                                                                                                                                                                                             |                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Eikenella corrodens<br><b>Catalog Number:</b> 0189<br><b>Lot Number:</b> 189-31<br><b>Reference Number:</b> ATCC® BAA-1152™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 3 | <b>Expiration Date:</b> 2018/10/31<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Mary L Bowman<br><b>Release Date:</b> 2016/12/19 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Medium, circular, convex, entire edge, light tan, glistening, "bleach-like" odor; as culture ages, margins flatten out. | <b>Medium:</b><br>Chocolate                                                                                                                                                                                                                                                                                                                 |
| <b>Microscopic Features:</b><br>Gram negative straight rod with rounded ends.                                                                           | <b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                                                                                            |
| <b>ID System:</b> Vitek NH (1)<br>See attached ID System results document.                                                                              | <b>Other Features/ Challenges: Results</b><br>(1) Oxidase (Kovacs): positive<br>(1) Catalase (3% Hydrogen Peroxide): negative<br>MacConkey Agar (AER/35 C/48 Hr): no growth<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>AUTHORIZED SIGNATURE |

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TESTING CERT #2655.01

bioMerieux Customer: 1012555  
System #: 521711

## Laboratory Report

Printed Dec 16, 2016 09:35 CST  
Printed by: mlb

Isolate Group: 189 31-1

Bench: MB

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

Bionumber: 0622002400

Organism Quantity:

|                  |  |
|------------------|--|
| <b>Comments:</b> |  |
|                  |  |
|                  |  |
|                  |  |

|                                           |  |                                     |                                      |                                 |
|-------------------------------------------|--|-------------------------------------|--------------------------------------|---------------------------------|
| Identification Information                |  | Card: NH                            | Lot Number: 245369522                | Expires: Jan 25, 2017 12:00 CST |
|                                           |  | Completed: Dec 15, 2016 17:31 CST   | Status: Final                        | Analysis Time: 6.00 hours       |
| Selected Organism                         |  | 97% Probability Eikenella corrodens |                                      |                                 |
|                                           |  | Bionumber: 0622002400               | Confidence: Excellent identification |                                 |
| SRF Organism                              |  |                                     |                                      |                                 |
| Analysis Organisms and Tests to Separate: |  |                                     |                                      |                                 |
| Analysis Messages:                        |  |                                     |                                      |                                 |
| Contraindicating Typical Biopattern(s)    |  |                                     |                                      |                                 |
| Eikenella corrodens dMLT(16),             |  |                                     |                                      |                                 |

## 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

|                                                                                                                                                                                                                                      |                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specifications</b><br><b>Microorganism Name:</b> Bacillus cereus<br><b>Catalog Number:</b> 0200<br><b>Lot Number:</b> 200-30<br><b>Reference Number:</b> ATCC® 14579™*<br><b>Purity:</b> Pure<br><b>Passage from Reference:</b> 3 | <b>Expiration Date:</b> 2019/7/31<br><b>Release Information:</b><br><b>Quality Control Technologist:</b> Mary L Bowman<br><b>Release Date:</b> 2017/8/22 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

| Performance                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Macroscopic Features:</b><br>Large, circular to irregular, flat, erose edge, gray, dull, beta hemolytic.<br><b>Microscopic Features:</b><br>Straight, gram positive rod, with an ellipsoidal or spherical, terminal endospore | <b>Medium:</b><br>SBAP<br><b>Method:</b><br>Gram Stain (1)                                                                                                                                                                                                                                                                                                   |
| <b>ID System:</b> MALDI-TOF<br>See attached ID System results document.                                                                                                                                                          | <b>Other Features/ Challenges: Results</b><br>(1) Catalase (3% Hydrogen Peroxide): positive<br>Parasporal crystals (Phase Contrast Microscopy): not present<br>Rhizoid colonies: not present<br><br><br>Amanda Kuperus<br>Quality Control Manager<br>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)      | <b>High consistency:</b> 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)      | <b>Low consistency:</b> 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)      | <b>No consistency:</b> The requirements for high or low consistency are not met.                                                                                                                                                                                                                                               |

Sample Name: Bacillus cereus  
 Sample Description: 0200  
 Sample ID: 200-30  
 Sample Creation Date/Time: 2017-08-07T10:21:59.155 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 |
|----------------|-----------|-----------------------|-------------|
| F4<br>(+++)(A) | 200-30    | Bacillus cereus       | 2.10        |

## Comments:

Bacillus anthracis, cereus, mycoides, pseudomycoides, thuringiensis and weihenstephanensis are closely related and members of the Bacillus cereus group. In particular Bacillus cereus spectra are very similar to spectra from Bacillus anthracis. Bacillus anthracis is not included in the MALDI Biotyper database. For differentiation an adequate identification method has to be selected by an experienced professional. The quality of spectra (score) depends on the degree of sporulation: Use fresh material.



Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

**Specifications**

**Microorganism Name:** Shigella sonnei  
**Catalog Number:** 0303  
**Lot Number:** 303-87  
**Reference Number:** ATCC® 25931™\*  
**Purity:** Pure  
**Passage from Reference:** 3

**Expiration Date:** 2019/1/31

**Release Information:**

**Quality Control Technologist:** Christine Condon

**Release Date:** 2017/3/7

**Performance**

**Macroscopic Features:**

Two colony types (both are large and can spread): circular, convex, light gray, smooth and other type is irregular, raised, darker gray, and rough, (spreads more than other colony type).

**Medium:**

SBAP

**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

Hektoen Enteric agar: good growth, colorless to blue-green colonies

Shigella Antiserum Poly Group D: positive

(1) Motility B Medium: negative

Amanda Kuperus

Quality Control Manager

AUTHORIZED SIGNATURE

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TESTING CERT #2655.01

bioMerieux Customer: 1012555  
System #: 521711

## Laboratory Report

Printed Mar 2, 2017 07:56 CST  
Printed by: cmc

Isolate Group: 303 87-1

Bench: CC

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

Bionumber: 0405610140463610

Organism Quantity:

|                  |          |
|------------------|----------|
| <b>Comments:</b> |          |
|                  |          |
|                  | GN QC OK |
|                  |          |

|                                                    |                                                                                                    |                       |                                 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| Identification Information                         | Card: GN                                                                                           | Lot Number: 241399320 | Expires: Nov 19, 2017 12:00 CST |
|                                                    | Completed: Feb 28, 2017 21:36 CST                                                                  | Status: Final         | Analysis Time: 5.00 hours       |
| Selected Organism                                  | 99% Probability Shigella sonnei<br>Bionumber: 0405610140463610Confidence: Excellent identification |                       |                                 |
| SRF Organism                                       |                                                                                                    |                       |                                 |
| Analysis Organisms and Tests to Separate:          |                                                                                                    |                       |                                 |
| Analysis Messages:<br>Confirm by serological tests |                                                                                                    |                       |                                 |
| 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: