Microbiologics®

Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications	
Microorganism Name: Bacillus cereus **Catalog Number:** 0999 **Lot Number:** 999-37 **Reference Number:** ATCC® 13061™* **Purity:** Pure **Passage from Reference:** 2	**Expiration Date:** 2019/3/31 **Release Information:** **Quality Control Technologist:** Christine Condon **Release Date:** 2017/5/30

Performance

Macroscopic Features:

Large, gray, dull, raised, colonies, which have an irregular shape and are beta hemolytic.

May exhibit a second colony type that shows itself as growth on top of growth. Slightly darker in color with a more mucoid appearance.

Medium:

SBAP

Microscopic Features:

Straight, gram positive rod, with an ellipsoidal or spherical, terminal endospore.

Method:

Gram Stain (1)

ID System: MALDI-TOF

See attached ID System results document.

Other Features/ Challenges: Results

(1) Catalase (3% Hydrogen Peroxide): positive

Parasporal crystals (Phase Contrast Microscopy): not present

Rhizoid colonies: not present

Amanda Kuperus

Quality Control Manager

AUTHORIZED SIGNATURE

Disclaimer: The last digit(s) of the lot number appearing on the product label and packing slip are merely a packaging event number. The lot number displayed on this certificate is the actual base lot number.

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

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

Individual products are traceable to a recognized culture collection.

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

A2LA ACCREDITED

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

Sample Name: Bacillus cereus
Sample Description: 0999
Sample ID: 999-37
Sample Creation Date/Time: 2017-05-03T14:37:20.513 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
A11 (+++) (A)	999-37	Bacillus cereus	2.08

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.