Microbiologics®

Certificate of Analysis: Lyophilized Microorganism Specification and Performance Upon Release

Specifications
Microorganism Name: Bacillus subtilis subsp. spizizenii
Catalog Number: 0486
Lot Number: 486-732**
Reference Number: ATCC® 6633™*
Purity: Pure
Passage from Reference: 3
(7) Mean Assay Value (MAV): 5.0E+02 CFU per pellet

Expiration Date: 2020/6/30
Release Information:
Quality Control Technologist: Kassandra L Hall
Release Date: 2018/7/18

Performance

Macroscopic Features:
Large, irregular, flat, undulate edge, gray and wrinkled with ground glass appearance; beta hemolysis and slight yellow coloring may appear in wrinkles by 48 hours.

Medium:
SBAP

Microscopic Features:
Straight, gram positive rod, with an ellipsoidal, central or terminal endospore.

Method:
Gram Stain (1)

ID System: MALDI-TOF (1)
See attached ID System results document.

Other Features/ Challenges: Results
(1) Purple Broth w/Rhamnose: negative
(1) Purple broth w/Lactose: negative
MYP Agar: Growth of yellow, dry colonies without precipitate

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.

ACCREDITED
REFERENCE MATERIAL PRODUCER
CERT #2655.02

ATCC Licensed Derivative®

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

ACCREDITED
TESTING CERT #2655.01

(7) The Mean Assay Value (MAV) stated above may deviate from the end-user's MAV based on variables inherent to each laboratory environment, such as methods, media type, equipment, pipettes, and individual technician technique.

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 subtilis subsp. spizizenii
Sample Description: 0486
Sample ID: 486-732
Sample Creation Date/Time: 2018-07-12T10:24:59.342 JS
Applied MSP Library(ies): BDAL, Mycobacteria Library (bead method), Filamentous Fungi Library 1.0, Listeria

Sample Name	Sample ID	Organism (best match)	Score Value
C7 (+++) (A)	486-732	Bacillus subtilis	2.03

Comments:

is a member of Bacillus subtilis group. The quality of spectra (score) depends on the degree of sporulation: Use fresh material.