

***Bifidobacterium angulatum*, Strain F16_22**

Catalog No. HM-1189

Product Description: *Bifidobacterium angulatum* (*B. angulatum*), strain F16_22 was isolated from human stool in Guelph, Ontario, Canada. **Note:** The strain designation, strain F16 #22, on the vial label for lot 63980300 is incorrect. The correct strain designation is F16_22.

Lot^{1,2}: 63980300

Manufacturing Date: 14JAN2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ³ Motility (wet mount)	Gram-positive rods Report results Report results	Gram-positive rods Circular, low convex, entire, smooth and gray (Figure 1) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 710 base pairs)	≥ 99% sequence identity to depositor's sequence	≥ 99% sequence identity to depositor's sequence
Purity (post-freeze) Anaerobic atmosphere ⁴ Aerobic atmosphere ⁵	Growth consistent with expected colony morphology No growth	Growth consistent with expected colony morphology No growth
Viability (post-freeze)³	Growth	Growth

¹Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

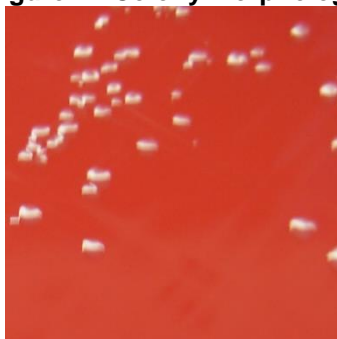
²*B. angulatum*, strain F16_22 was deposited by Assistant Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-1189 was produced by inoculation of the deposited material into Reinforced Clostridial broth and incubated for 1 day at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Reinforced Clostridial broth for 1 day at 37°C in an anaerobic atmosphere to produce this lot.

³1 day at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁴Purity of this lot was assessed for 8 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

⁵Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Certificate of Analysis for HM-1189

Date: 09 FEB 2016

Signature:



BEI Resources Authentication

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

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