SUPPORTING INFECTIOUS DISEASE RESEARCH

Bifidobacterium longum subsp. longum, Strain 44B

Catalog No. HM-845

Product Description:

Bifidobacterium longum subsp. *longum* (*B. longum* subsp. *longum*), strain 44B was isolated from a one-year-old human patient. HM-845 lot 70055112 was produced by the inoculation of BEI Resources seed lot 61773984 into Modified Reinforced Clostridial medium and incubated for 2 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel[™] Pack-Anaero[™]). The material from the initial growth was passaged once in Modified Reinforced Clostridial medium for 2 days at 37°C in an anaerobic atmosphere (< 5% O₂; Remel[™] Pack-Anaero[™]). The material from the initial growth was passaged once in Modified Reinforced Clostridial medium for 2 days at 37°C in an anaerobic atmosphere to produce this lot. Quality control testing was completed on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions unless otherwise noted.

<u>Note:</u> Quality 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.

Lot: 70055112

Manufacturing Date: 28OCT2022

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Circular, convex, entire, smooth and white
Motility (wet mount)	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1360 base pairs)	≥ 99% sequence identity to <i>B. longum</i> subsp. <i>longum</i> , strain 44B (GenBank: AJTM01000045.1)	99.9% sequence identity to <i>B. longum</i> subsp. <i>longum,</i> strain 44B (GenBank: AJTM01000045.1) ¹
Purity (post-freeze)		
Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic with 5% CO ₂ 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth ²
Viability (post-freeze)	Growth	Growth

¹Also consistent with other *Bifidobacterium* species

²B. longum subsp. longum is an aerotolerant anaerobe and the growth in an aerobic atmosphere with 5% CO₂ is not unexpected. VITEK[®] MS (MALDI-TOF) analysis identified this growth as *Bifidobacterium spp.*

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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