

***Bifidobacterium longum* subsp. *longum*, Strain 35B**

**Catalog No. HM-847**

**Product Description:**

*Bifidobacterium longum* subsp. *longum* (*B. longum* subsp. *longum*), strain 35B was isolated from a one-year-old human patient. **Note: The strain designation on the vial label for lot 70060464 is incorrect. The correct strain designation is 35B.** HM-847 was produced by the inoculation of BEI Resources seed lot 61773988 into Modified Reinforced Clostridial broth and incubated for 2 days at 37°C in an anaerobic atmosphere (< 5% O<sub>2</sub>; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth 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.

**Note:** 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: 70060464**

**Manufacturing Date: 05MAY2023**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount)	Gram-positive rods Report results  Report results	Gram-positive rods Circular, low convex, entire, smooth and translucent  Non-motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (1410 base pairs)	≥ 99% sequence identity to <i>B. longum</i> subsp. <i>longum</i> , strain 35B (GenBank: AJT101000079)	100% sequence identity to <i>B. longum</i> subsp. <i>longum</i> , strain 35B (GenBank: AJT101000079) <sup>1</sup>
<b>Purity (post-freeze)</b> Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic with 5% CO <sub>2</sub> 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology  Growth	Growth consistent with expected colony morphology  Growth <sup>2</sup>
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Also consistent with other *Bifidobacterium* species

<sup>2</sup>*B. longum* subsp. *longum* is an aerotolerant anaerobe and the growth in an aerobic atmosphere with 5% CO<sub>2</sub> is not unexpected. VITEK® MS (MALDI-TOF) analysis identified this growth as *Bifidobacterium* spp.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

17 JUL 2023

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

