SUPPORTING INFECTIOUS DISEASE RESEARCH

## Bifidobacterium longum subsp. longum, Strain 35B

## Catalog No. HM-847

**Product Description:** *Bifidobacterium longum (B. longum)* subsp. *longum*, strain 35B was isolated from a one-year-old human patient. <u>Note</u>: The strain designation on the vial label for lot 61773987 is incorrect. The correct strain designation is 35B.

## Lot<sup>1,2</sup>: 61773987

## Manufacturing Date: 26JUL2013

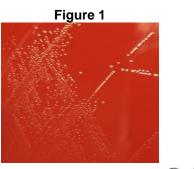
| TEST   | SPECIFICATIONS   | RESULTS  |
|--|--|--|
| Phenotypic Analysis<br>Cellular morphology<br>Colony morphology (anaerobic) <sup>3,4</sup> | Report results<br>Report results   | Gram-positive rods<br>Circular, flat, entire, smooth and<br>translucent (Figure 1)                   |
| Genotypic Analysis<br>Sequencing of 16S ribosomal RNA gene<br>(~ 890 base pairs)           | ≥ 99% identical to GenBank:<br>AJTI01000079 ( <i>B. longum</i> subsp.<br><i>longum</i> , strain 35B) | ≥ 99% identical to GenBank:<br>AJTI01000079 ( <i>B. longum</i><br>subsp. <i>longum</i> , strain 35B) |
| Viability (post-freeze) <sup>3</sup>   | Growth   | Growth   |

<sup>1</sup>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.

<sup>2</sup>B. longum subsp. longum, strain 35B was deposited by Andrei Shkoporov, Senior Scientist, Department of Microbiology, Russian National Research Medical University, Moscow, Russia. HM-847 was produced by inoculation of the deposited material into Modified Reinforced Clostridial broth and incubated for 48 hours at 37°C in an anaerobic atmosphere (90% N<sub>2</sub>:5% CO<sub>2</sub>:5% H<sub>2</sub>). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 48 hours at 37°C in an anaerobic atmosphere to produce this lot. Purity of this lot was accessed for 7 days under propagation conditions.

<sup>3</sup>48 hours at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>4</sup>Anaerobic and 5%-CO<sub>2</sub> colony types were observed when HM-847 was grown on Tryptic Soy agar with 5% defibrinated sheep blood for 48 hours. The 16S gene of each colony type was sequenced and both colonies were consistent with *B. longum* subsp. *longum*. *B. longum* subsp. *longum* is an aerotolerant anaerobe and the presence of growth in an aerobic atmosphere with 5%CO<sub>2</sub> is not unexpected.



Date: 04 OCT 2013

Technical Manager, BEI Authentication or designee

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