

***Bifidobacterium longum* subsp. *longum*, Strain 2-2B**

Catalog No. HM-848

Product Description: *Bifidobacterium longum* (*B. longum*) subsp. *longum*, strain 2-2B was isolated from a six-year-old human patient. **Note:** The strain designation on the vial label for lot 61773990 is incorrect. The correct strain designation is 2-2B.

Lot^{1,2}: 61773990

Manufacturing Date: 07JUN2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology (anaerobic) ^{3,4}	Report results Report results	Gram-positive rods Circular, low convex, entire, smooth and gray (Figure 1)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 900 base pairs)	≥ 99% identical to GenBank: AJTJ01000131 (<i>B. longum</i> subsp. <i>longum</i> , strain 2-2B)	≥ 99% identical to GenBank: AJTJ01000131 (<i>B. longum</i> subsp. <i>longum</i> , strain 2-2B)
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. longum* subsp. *longum*, strain 2-2B was deposited by Andrei Shkoporov, Senior Scientist, Department of Microbiology, Russian National Research Medical University, Moscow, Russia. HM-848 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% N₂:5% CO₂:5% H₂). 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.

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

⁴Anaerobic and 5%-CO₂ colony types were observed when HM-848 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%CO₂ is not unexpected.

Figure 1



Date: 07 OCT 2013

Signature:

Title: Technical Manager, BEI Authentication or designee

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