

***Bifidobacterium breve*, Strain HPH0326**

**Catalog No. HM-856**

**Product Description:** *Bifidobacterium breve* (*B. breve*), strain HPH0326 was isolated from a biopsy of ileo-anal pouch mucosa of a human subject in the United States.

**Lot<sup>1,2</sup>: 62251379**

**Manufacturing Date: 26DEC2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology (anaerobic) <sup>3,4</sup>  Motility (wet mount)	Gram-positive rods Report results  Non-motile	Gram-positive rods Circular, low convex, entire, smooth and translucent (Figure 1) Non-motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 890 base pairs)	≥ 99% identical to GenBank: ATCB01000001 ( <i>B. breve</i> , strain HPH0326)	≥ 99% identical to GenBank: ATCB01000001 ( <i>B. breve</i> , strain HPH0326)
<b>Viability (post-freeze)<sup>3</sup></b>	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. breve*, strain HPH0326 was deposited by Thomas M. Schmidt, Professor, Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, Michigan, USA. HM-856 was produced by inoculation of the deposited material into Modified Reinforced Clostridial broth and incubated for 72 hours at 37°C in an anaerobic atmosphere (80% N<sub>2</sub>: 20% CO<sub>2</sub>). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 72 hours at 37°C in an anaerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

<sup>3</sup>68 hours at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

<sup>4</sup>Anaerobic and aerobic with 5% CO<sub>2</sub> colony types were observed when HM-856 was grown on Tryptic Soy agar with 5% defibrinated sheep blood for 68 hours at 37°C. The 16S ribosomal RNA gene of each colony type was sequenced and both colonies were consistent with *B. breve*. *B. breve* is an anaerobe; however, it has been reported to grow under low oxygen conditions.

**Figure 1**



**Date:** 25 MAR 2014

**Signature:**

**Title:**

Technical Manager, BEI Authentication or designee

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