

***Bifidobacterium longum*, Strain CMW7750**

**Catalog No. HM-1299**

**Product Description:**

*Bifidobacterium longum* (*B. longum*), strain CMW7750 is a vaginal isolate obtained in 2014 from a pregnant female in St. Louis, Missouri, USA. HM-1299 was produced by the inoculation of BEI Resources seed lot 70006598 into Modified Reinforced Clostridial broth and incubated for 2 days at 37°C in an anaerobic atmosphere. Broth inoculum was added to Modified Reinforced Clostridial broth, which was grown for 3 days at 37°C in an anaerobic atmosphere to produce this lot. Quality control testing was completed 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: 70060181**

**Manufacturing Date: 24APR2023**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount)	Gram-positive rods Report results  Report results	Gram-positive rods Circular, slightly peaked, entire, smooth and grey (Figure 1)  Non-motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 770 base pairs)	≥ 99% sequence identity to <i>B. longum</i> , Strain CMW7750 (GenBank: LRPQ01000041.1)	100% sequence identity to <i>B. longum</i> , Strain CMW7750 (GenBank: LRPQ01000041.1)
<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 consistent with expected colony morphology	Growth consistent with expected colony morphology  Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b> 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

**Figure 1: Colony Morphology**



/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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