

# Certificate of Analysis for HM-30D

**Genomic DNA from *Bifidobacterium* sp., Strain 12\_1\_47BFAA**

**Catalog No. HM-30D**

**Product Description:** Genomic DNA was obtained from a preparation of *Bifidobacterium* sp., strain 12\_1\_47BFAA.

**Lot<sup>1,2</sup>: 59980918**

**Manufacturing Date: 18NOV2011**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene</b> (~ 1400 base pairs)	≥ 99% identical to GenBank ADCN01000062 ( <i>Bifidobacterium</i> sp., strain 12_1_47BFAA)	≥ 99% identical to GenBank ADCN01000062 ( <i>Bifidobacterium</i> sp., strain 12_1_47BFAA)
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen® Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.0 µg in 26 µL per vial (40 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.0	1.9
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy Agar with 5% defibrinated sheep blood <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>Quality control of HMP organisms used for DNA extraction is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

<sup>2</sup>The bacterial preparation used for extraction of genomic DNA was produced by Reinforced Clostridial Broth culture of the deposited material. After incubation for 48 hours at 37°C and anaerobic atmosphere (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>), genomic DNA was extracted using proprietary technology.

<sup>3</sup>7 days at 37°C and anaerobic atmosphere

<sup>4</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

**Date:** 09 MAR 2012

**Signature:**



**Title:**

Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® 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.

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