

**Bacillus smithii, Strain 7\_3\_47FAA**

**Catalog No. HM-229**

**Product Description:** *Bacillus smithii* (*B. smithii*), strain 7\_3\_47FAA was isolated in 2007 from an inflamed sigmoid colon biopsy specimen taken from a 25-year-old female patient with Crohn's disease in Calgary, Alberta, Canada.

**Lot<sup>1,2</sup>: 60574083**

**Manufacturing Date: 15APR2012**

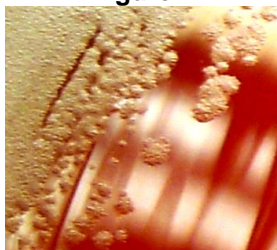
TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>3</sup>	Report results Report results	Gram-positive rod Irregular, flat and cream (Figure 1)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	≥ 99% identical to GenBank: ACWF01000002 ( <i>B. smithii</i> , strain 7_3_47FAA)	≥ 99% identical to GenBank: ACWF01000002 ( <i>B. smithii</i> , strain 7_3_47FAA)
<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. smithii*, strain 7\_3\_47FAA was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. The deposited material was inoculated into M2GSC medium and grown at 37°C for 6 days in an anaerobic atmosphere (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>). Optimal culture conditions were determined over the course of 9 additional passages at 37°C, at which time the culture was determined to be impure. Three successive colony purifications were carried out on Tryptic Soy Agar with 5% defibrinated sheep blood at 37°C in an anaerobic atmosphere to obtain a pure culture. The purified culture was found to be facultatively aerobic and was inoculated onto Tryptic Soy Agar with 5% defibrinated sheep blood and incubated for 9 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. The resulting material was then added to Kolles, which were incubated for 72 hours at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. After an addition passage, the material was harvested to produce this lot.

<sup>3</sup>72 hours at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy Agar with 5% defibrinated sheep blood

**Figure 1**



**Date:** 11 MAR 2013

**Signature:**

**Title:** Technical Manager, BEI Authentication or designee

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