

***Lachnospiraceae* sp., Strain 7\_1\_58FAA**

**Catalog No. HM-153**

**Product Description:**

*Lachnospiraceae* sp., strain 7\_1\_58FAA was obtained from inflamed biopsy tissue taken from the ascending colon of a 39-year-old female patient with ulcerative colitis. *Lachnospiraceae* sp., strain 7\_1\_58FAA was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-153 was produced by the inoculation of BEI Resources seed lot 61119733 into Trypticase-Yeast Extract broth and incubated for 3 days at 37°C in an anaerobic atmosphere (< 5% O<sub>2</sub>; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Trypticase-Yeast Extract broth for 3 days at 37°C in an anaerobic atmosphere to produce this lot.

**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: 70044687**

**Manufacturing Date: 17JUN2021**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>1</sup> Colony morphology 2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount) <b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	Gram-negative rod Report results  Report results ≥ 99% sequence identity to <i>Lachnospiraceae</i> sp., strain 7_1_58FAA (GenBank: ACTW01000157)	Gram-negative rod Circular, low convex, entire, smooth, translucent and gray (Figure 1) Non-motile 99.8% sequence identity to <i>Lachnospiraceae</i> sp., strain 7_1_58FAA (GenBank: ACTW01000157)
<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  No growth	Growth consistent with expected colony morphology  No growth
<b>Viability (post-freeze)</b> 2 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

<sup>1</sup>*Lachnospiraceae* species have a Gram-positive cell wall but several stain Gram-variable or Gram-negative; see Rainey, F. A. "Family V. *Lachnospiraceae* fam. nov." In *Bergey's Manual of Systematic Bacteriology*, Volume 3. 2<sup>nd</sup> Ed. New York: Springer, 2009, p. 921.

**Figure 1: Colony Morphology**



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