

# Certificate of Analysis for NR-36445

***Lachnospiraceae* sp., Strain 10-1**

**Catalog No. NR-36445**

**Product Description:** *Lachnospiraceae* sp., strain 10-1 was isolated in March 2008 from the cecal content of mouse cecum in Birmingham, Alabama, USA.

**Lot<sup>1</sup>: 62071694**

**Manufacturing Date: 11DEC2013**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup> Colony morphology <sup>3</sup> Motility (wet mount)	Report results Report results Report results	Gram-variable rods No growth on agar Non-motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	Consistent with <i>Lachnospiraceae</i> sp.	Consistent with <i>Lachnospiraceae</i> sp. <sup>4</sup>
<b>Viability (post-freeze)<sup>5</sup></b>	Growth	Growth

<sup>1</sup>NR-36445 was produced by inoculation of the deposited material into M2GSC broth and incubated for 11 days 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 twice in M2GSC broth for 22 days and 7 days, respectively, at 37°C and anaerobic atmosphere, to produce this lot. Purity of this lot was assessed for 7 days on M2GSC agar under propagation conditions in which no growth was observed.

<sup>2</sup>*Lachnospiraceae* species have a Gram-positive cell wall but may stain Gram-variable or Gram-negative; see Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." *Anaerobe* 17 (2011): 206-210. PubMed: 21699990.

<sup>3</sup>7 days at 37°C and anaerobic atmosphere on M2GSC agar

<sup>4</sup>≥ 99% identical to GenBank: ASSX01000026 (*Lachnospiraceae* sp., strain 10-1)

<sup>5</sup>7 days at 37°C and anaerobic atmosphere in M2GSC broth

**Date:** 09 MAY 2014

**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 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

