Certificate of Analysis for HM-161

Lachnospiraceae sp., Strain 1_4_56FAA

Catalog No. HM-161

Product Description:

Lachnospiraceae sp., strain 1_4_56FAA was obtained from inflamed biopsy tissue taken from the terminal ileum of a 29-year-old female patient with Crohn's disease in 2007 from Calgary, Canada. HM-161 was produced by inoculation of BEI Resources seed lot 61119724 into Modified Trypticase-Yeast Extract broth and grown for 3 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Tryptic Soy broth with 5% defibrinated sheep blood 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: 70075877 **Manufacturing Date: 02JUN2025**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive rods	Gram-variable rods
Colony morphology 3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Report results	Punctiform (Figure 1)
Motility (wet mount)	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1390 base pairs)	≥ 99% sequence identity to *Lachnospiraceae* sp., strain 1_4_56FAA (GenBank: ACTN01000028.1)	99.6% sequence identity to *Lachnospiraceae* sp., strain 1_4_56FAA (GenBank: ACTN01000028.1)[1]
Purity (post-freeze)		
Anaerobic 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
Aerobic with 5% CO_2 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology or no growth	No growth
Viability (post-freeze)	Growth	Growth

[1]Also consistent with other *Lachnospiraceae* species

Figure 1: Colony Morphology

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Certificate of Analysis for HM-161

/Sonia Bjorum Brower/
Sonia Bjorum Brower 18 JUL 2025
Technical Manager or designee, ATCC Federal Solutions

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.

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