

***Lachnospiraceae* sp., Strain CC70A (Deposited as *Clostridium lentocellum*)**

Catalog No. HM-1043

Product Description: *Lachnospiraceae* sp., strain CC70A was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada. (HM-1043 was deposited as *Clostridium lentocellum*, however, it has been determined that the depositor's 16S ribosomal RNA gene sequence and the 16S ribosomal RNA gene sequence obtained from HM-1043 align more favorably with *Lachnospiraceae* sp. The organism on the label is incorrect and does not reflect the current taxonomic update.)

Lot^{1,2}: 63585538

Manufacturing Date: 01JUL2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ⁴ Motility (wet-mount)	Report results ³ Report results Report results	Gram-variable rods (Figure 1) Irregular, low convex, undulate, and gray (Figure 2) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 660 base pairs)	≥ 99% identical to depositor's sequence	99.4% identical to depositor's sequence
Purity (post-freeze) Anaerobic growth ⁵ Aerobic growth ⁶	Consistent with expected colony morphology No growth	Consistent with expected colony morphology No growth
Viability (post-freeze)⁴	Growth	Growth

¹Quality 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.

²*Lachnospiraceae* sp., strain CC70A was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-1043 was produced by inoculation of the deposited material into Modified Reinforced Clostridial broth and incubated for 1 day at 37°C in an anaerobic atmosphere (< 5% O₂; Remel™ Pack-Anaero™). The material from the initial growth was passaged once in Modified Reinforced Clostridial broth for 1 day at 37°C in an anaerobic atmosphere to produce this lot. to produce this lot.

³Gram-positive (lacks LPS) but is known to stain as Gram-positive, -negative, or -variable.

⁴1 day at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁵Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an anaerobic atmosphere.

⁶Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO₂.

Figure 1: Cellular Morphology

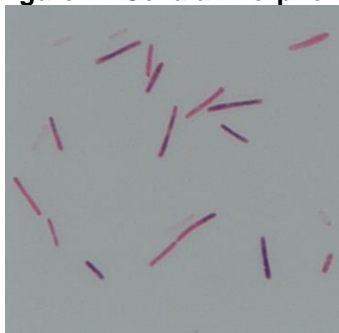
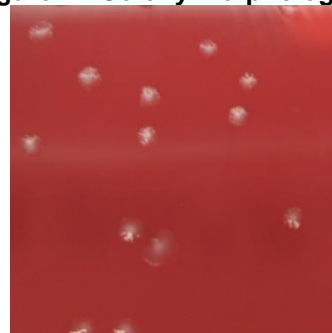


Figure 2: Colony Morphology



Certificate of Analysis for HM-1043

Date: 03 JUN 2016

Signature:



BEI Resources Authentication

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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