b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-1080

Lachnospiraceae sp., Strain DNF00160

Catalog No. HM-1080

Product Description: *Lachnospiraceae* sp., strain DNF00160 was isolated on May 18, 2011, from vaginal fluid collected from a woman that tested positive for bacterial vaginosis in Washington, United States.

Lot[1,2]: 64193321 **Manufacturing Date: 31MAY2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Report results[3]	Gram-positive rods[4]
Colony morphology[5]	Report results	Circular, low convex, undulate, translucent and gray (Figure 1)
Motility[6]	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 860 base pairs)	≥ 99% identical to *Lachnospiraceae* sp., strain DNF00160 (GenBank: KC297223)	100% identical to *Lachnospiraceae* sp., strain DNF00160 (GenBank: KC297223)
Purity (post-freeze)		
Anaerobic growth[7]	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[8]	No growth	No growth
Viability (post-freeze)[5]	Growth	Growth

[1]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.

[2]*Lachnospiraceae* sp., strain DNF00160 was deposited by David N. Fredricks, M.D., Principal Investigator, Vaccine and Infectious Diseases Division, Fred Hutchinson Cancer Research Center, Seattle, Washington, USA. The deposited material was passaged twice and persevered in 10% glycerol. HM-1080 lot 64193321 was produced by inoculation of the persevered material into Chopped Meat broth. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood and grown for 7 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™). Colonies from the Tryptic Soy agar culture were suspended into fresh Chopped Meat broth and incubated for 3 days at 37°C in an anaerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 5 days at 37°C in an anaerobic atmosphere to produce this lot.

[3]*Lachnospiraceae* species have a Gram-positive cell wall but some strains have been reported to stain Gram-variable or Gram-negative depending on the duration of growth. For additional information, refer to Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." Anaerobe 17 (2011): 206-210. PubMed: 21699990.

[4]Gram-variable rods were also observed.

[5]4 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

[6]Motility test performed on BBL™ Motility Test Medium w/TTC Indicator for 4 days at 37°C in an anaerobic atmosphere

[7]Purity of this lot was assessed for 4 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an anaerobic atmosphere.

[8]Purity 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% CO_2.

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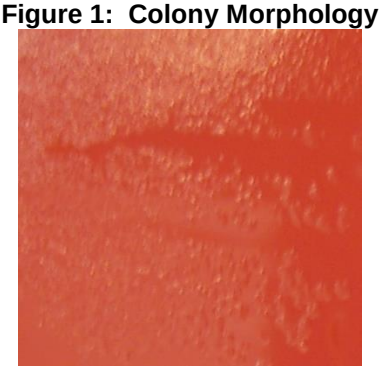
Figure 1: Colony Morphology



Date: 27 SEP 2016 **Signature:**

BEI Resources Authentication

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