b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-1057

Ruminococcus lactaris, Strain CC59_002D

Catalog No. HM-1057

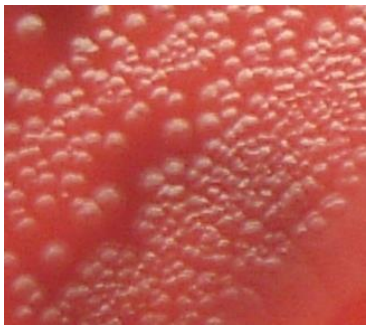
Product Description: *Ruminococcus lactaris (R. lactaris)*, strain CC59_002D was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.

Lot[1-3]: 70013558 **Manufacturing Date: 13MAR2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram positive coccobacilli	Gram positive coccobacilli
Colony morphology[4]	Report results	Irregular, raised, undulate, smooth and gray (Figure 1)
Motility (wet-mount)	Report results	Non-motile
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1380 base pairs)	≥ 99% identical to *R. lactaris*, strain CC59_002D (GenBank: AZJE01000037)	99.9% identical to *R. lactaris*, strain CC59_002D (GenBank: AZJE01000037)
Purity (post-freeze)		
Anaerobic growth[5]	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[6]	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]*R. lactaris*, strain CC59_002D was deposited by Professor Emma Allen-Vercoe, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada. HM-1057 lot 70013558 was produced by inoculation of BEI Resources HMS-1057 lot 63087137 into Rumen Fluid-Glucose-Cellobiose broth and incubated for 3 days at 37°C in an anaerobic atmosphere (< 5% O_2; Remel™ Pack-Anaero™ R681001). The material from the initial growth was passaged once in Rumen Fluid-Glucose-Cellobiose broth for 1 day at 37°C in an anaerobic atmosphere to produce this lot.
[3]Growth on agar is not recommended for *R. lactaris*, strain CC59_002D and may not be reproducible.
[4]3 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[5]Purity of this lot was assessed for 7 days at 37°C in an anaerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.
[6]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



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Certificate of Analysis for HM-1057

Heather Couch

Digitally signed by Heather Couch
Date: 2018.06.05 12:24:20 -04'00'

05 JUN 2018

Program 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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