

Ruminococcus lactaris*, Strain CC59_002D*Catalog No. HM-1057****For research use only. Not for human use.****Contributor:**

Emma Allen-Vercoe, Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Ruminococcaceae*, *Ruminococcus*

Species: *Ruminococcus lactaris*

Strain: CC59_002D

Original Source: *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.¹

Comments: *R. lactaris*, strain CC59_002D ([HMP ID 1202](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *R. lactaris*, strain CC59_002D was sequenced at the [Broad Institute](#) (GenBank: [AZJE00000000](#)).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

R. lactaris is an obligately anaerobic, non-sporulating, Gram-positive coccus with coccobacillus recognized for its highly fermentative nature. *R. lactaris* is typically found in the digestive tract of humans and animals.²

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Rumen Fluid-Glucose-Cellobiose medium supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

HM-1057 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:Media:

Rumen Fluid-Glucose-Cellobiose medium² or Fastidious Anaerobe agar with 5% defibrinated sheep blood¹ or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

Propagation:

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 24 to 72 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Ruminococcus lactaris*, Strain CC59_002D, HM-1057."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Allen-Vercoe, E., Personal Communication.
2. Moore, W. E. C., J. L. Johnson and L. V. Holdeman. "Emendation of *Bacteroidaceae* and *Butyrivibrio* and Descriptions of *Desulfomonas* gen. nov. and Ten New Species in the Genera *Desulfomonas*, *Butyrivibrio*, *Eubacterium*, *Clostridium*, and *Ruminococcus*." Int. J. Syst. Bacteriol. 26 (1976): 238-252.

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