Product Information Sheet for NR-36445

Lachnospiraceae sp., Strain 10-1

Catalog No. NR-36445

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Clostridiales*, *Lachnospiraceae*
Species: *Lachnospiraceae* sp.
Strain: 10-1
Original Source: *Lachnospiraceae* sp., strain 10-1 was isolated in March 2008 from the cecal content of mouse cecum in Birmingham, Alabama, USA.[1,2]
Comment: The complete genome of *Lachnospiraceae* sp., strain 10-1 has been sequenced (GenBank: ASTF00000000).

Lachnospiraceae are a robust group of organisms that commonly occur in the digestive tract of humans and other animals.[3,4] *Lachnospiraceae* species are usually strictly anaerobic, non-spore-forming, non-motile, rod-shaped bacteria. *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.[5]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in M2GSC medium supplemented with 10% glycerol.

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

Packaging/Storage:
NR-36445 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:
Note: NR-36445 grows very poorly on agar
Media:
M2GSC broth[1,6] or equivalent
Tryptic Soy agar with 5% sheep blood or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Anaerobic (90% N_2:5% CO_2:5% H_2)

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 72 to 96 hours.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Lachnospiraceae* sp., Strain 10-1, NR-36445."

Biosafety Level: 2
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:

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3. Nava, G. M. and T. S. Stappenbeck. “Diversity of the Autochthonous Colonic Microbiota.” Gut Microbes 2 (2011): 99-104. PubMed: 21694499.
4. McLellan, S. L., et al. “Sewage Reflects the Distribution of Human Faecal *Lachnospiraceae*.” Environ. Microbiol. 15 (2013): 2213-2227. PubMed: 23438335.
5. Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." Anaerobe 17 (2011): 206-210. PubMed: 21699990.
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