

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-36444

Lachnospiraceae sp., Strain A2

Catalog No. NR-36444

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: A2

<u>Original Source</u>: Lachnospiraceae sp., strain A2 was isolated in January 2004 from the cecal content of mouse cecum in Birmingham, Alabama, USA. 1.2

<u>Comment</u>: The complete genome of *Lachnospiraceae* sp., strain A2 has been sequenced (GenBank: <u>ASSX000000000</u>).

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 Gramvariable or Gram-negative depending on the duration of growth.⁵

Material Provided:

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

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

Packaging/Storage:

NR-36444 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. Freezethaw cycles should be avoided.

Growth Conditions:

Note: BEI Resources observed no growth of NR-36444 on

agar <u>Media</u>:

M2GSC broth^{1,6} or equivalent

Tryptic Soy agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (90% N₂:5% CO₂:5% H₂)

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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.
- 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 A2, NR-36444."

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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- 2. C. O. Elson III, Personal Communication.
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- McLellan, S. L., et al. "Sewage Reflects the Distribution of Human Faecal *Lachnospiraceae*." <u>Environ. Microbiol.</u> 15 (2013): 2213-2227. PubMed: 23438335.
- Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." <u>Anaerobe</u> 17 (2011): 206-210. PubMed: 21699990.
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