

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-52259

Bacillus megaterium, Strain Ford 19 (Gibson 1060)

Catalog No. NR-52259

(Derived from ATCC® 14581™)

For research use only. Not for human use.

Contributor:

ATCC®

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Bacillaceae, Bacillus

Species: Bacillus megaterium

Strain: Ford 19 (also referred to as Gibson 1060, CIP 66.20,

NCTC 10342, CCM 2007, DSM 32, IAM 13418)

<u>Original Source</u>: Bacillus megaterium (B. megaterium), strain Ford 19 was isolated by W. W. Ford and was deposited at ATCC[®] in 1962 by Dr. Ruth E. Gordon, Institute of Microbiology, Rutgers University, New Brunswick, New Jersey, USA.^{1,2}

<u>Comments</u>: The complete genome of *B. megaterium*, strain Ford 19 has been sequenced (GenBank: CP009920.1).³

B. megaterium is an aerobic, Gram-positive, spore-forming, nonpathogenic motile bacillus found primarily in soil, but has also been isolated from sediment, dust, sea water and food such as honey, milk and fish.^{1,2,4} B. megaterium is a large bacterium both physically and genetically, with an average cell volume 100x greater than Escherichia coli and a relatively large five-megabase-pairs genome containing up to ten plasmids, making it well-suited for studies of cellular structure, protein localization, sporulation and membranes. A number of genetic tools are available for B. megaterium including transducing phages, mutant strains and recombinant shuttle vectors and as such, it is used in industry for production of recombinant proteins, vitamins and bioremediation activities.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Nutrient broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-52259 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

Nutrient broth or Tryptic Soy broth or equivalent

Nutrient agar or Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 30°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tube, slant and/or plate at 30°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Bacillus megaterium*, Strain Ford 19 (Gibson 1060), NR-52259."

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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