Genomic DNA from *Mycobacterium leprae*, Strain Br4923

Catalog No. NR-19351

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Contributor:

BEI Resources or NIH – Leprosy Research Support Contract

Manufacturer:

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA or NIH – Leprosy Research Support Contract

Product Description:

NR-19351 is a preparation of genomic DNA from *Mycobacterium leprae (M. leprae)*, strain Br4923 whole cells derived from infected armadillo liver and spleen tissue. DNA was extracted from whole bacilli by treatment with sodium dodecyl sulphate, Proteinase K and lysozyme, followed by freeze-fracture to disrupt the cell membrane. Extracted DNA was purified by phenol-chloroform-isoamyl alcohol (25:24:1) and chloroform-isoamyl alcohol (24:1) to remove contaminating proteins and polysaccharides. Genomic DNA was precipitated with isopropanol.

Material Provided:

Each vial of NR-19351 contains approximately 2 µg of lyophilized genomic DNA from *M. leprae* in TE buffer (10 mM Tris-HCl, 1 mM EDTA buffer, pH 8).

Note: Genomic DNA can be reconstituted in distilled water.

Packaging/Storage:

NR-19351 was packaged aseptically in plastic tubes. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Mycobacterium leprae*, Strain Br4923, NR-19351."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Belisle, J. T. and M. G. Sonnenberg. "Isolation of Genomic DNA from Mycobacteria." Methods Mol. Biol. 101 (1998): 31-44. PubMed: 9921467.

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