

***Mycobacterium caprae*, Strain
NLA000201913**

Catalog No. NR-49256

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*

Species: *Mycobacterium caprae*

Strain: NLA000201913

Original Source: *Mycobacterium caprae* (*M. caprae*), strain NLA000201913 was isolated in October 2002 from human sputum in the Netherlands.¹

M. caprae is an acid-fast, Gram-positive, non-motile, rod-shaped bacterium originally classified as a subspecies of *M. tuberculosis*, and later transferred to *M. bovis*, before being classified as its own species within the *M. tuberculosis* complex.²⁻⁴ *M. caprae* is the causative agent of tuberculosis in humans and domestic livestock in Europe and Northern Africa, including goats (*Capra aegagrus hircus*), sheep (*Ovis aries*), pigs (*Sus scrofa domestica*), and cattle (*Bos primigenius*), and in wild boars (*Sus scrofa*), red deer (*Cervus elaphus*), gray wolves (*Canis lupus*), and fox (*Vulpes vulpes*), as well as a dromedary camel (*Camelus dromedarius*), bison (*Bison bison*) and antelope (*Addax nasomaculatus*) in zoological parks.⁵⁻¹⁹

M. caprae is differentiated from the *M. tuberculosis* complex based on a unique combination of *pncA*, *oxyR*, *katG* and *gyrA* gene polymorphisms, specific nucleotide substitutions in the *gyrB* gene, a distinct restriction fragment length polymorphism (RFLP) pattern associated with insertion sequence 6110, and unique spoligotyping patterns.^{3,20}

Material Provided:

Each vial contains approximately 0.7 mL of bacterial culture in Middlebrook 7H9 broth with ADC enrichment supplemented with 10% glycerol.

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

Packaging/Storage:

NR-49256 was packaged aseptically in screw-capped plastic 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:

Middlebrook 7H9 broth with Middlebrook ADC enrichment or equivalent

Middlebrook 7H10 agar with Middlebrook OADC enrichment or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic (with or without 5% CO₂)

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 tubes and plate at 37°C for 2 to 6 weeks.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium caprae*, Strain NLA000201913, NR-49256."

Biosafety Level: 3

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.

This publication recommends that practices with this agent include the use of respiratory protection and the implementation of specific procedures and use of specialized equipment to prevent and contain aerosols.

Disclaimers:

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