

## *Neisseria meningitidis*, Strain 63006

### Catalog No. NR-32112

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#### Contributor:

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#### Manufacturer:

BEI Resources

#### Product Description:

Bacteria Classification: *Neisseriaceae*, *Neisseria*

Species: *Neisseria meningitidis*

Strain: 63006

Serogroup: A<sup>1</sup>

Original Source: *Neisseria meningitidis* (*N. meningitidis*), strain 63006 was isolated in 1963 from an infected patient in Burkina Faso.<sup>1</sup>

Comment: The complete genome for *N. meningitidis*, strain 63006 was sequenced at the Genomic Sequencing Center for Infectious Diseases at the [University of Maryland School of Medicine](#) (GenBank: [ANSI00000000](#)).

*N. meningitidis* is an aerobic, Gram-negative diplococcus and is the leading causative agent of human bacterial meningitis.<sup>2</sup> This organism commonly exists asymptotically as a commensal bacterium in the nasopharynx and is transmitted by aerosol or secretion.<sup>3</sup> Humans are the only natural reservoir of *N. meningitidis* and distribution of the 13 serogroups is highly dependent on region. Occasional epidemics have been associated with encapsulated strains in serogroups A, B, C, W-135 and Y.<sup>3,4</sup> *N. meningitidis* is able to escape host immunity by transformative and recombinant genetic variability, including capsule switching, which is believed to have contributed to global outbreaks of certain serogroups, raising efforts for vaccine development and disease surveillance.<sup>4-6</sup> Polysaccharide vaccines are available for serogroups A, C, W-135 and Y but limited for serogroup B.<sup>3,4</sup>

#### Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in *Haemophilus* Test Media supplemented with 10% glycerol.

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

#### Packaging/Storage:

NR-32112 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:

*Haemophilus* Test Medium (ATCC<sup>®</sup> medium 2167) or equivalent

Chocolate Agar (GC Medium; ATCC<sup>®</sup> medium 814) or equivalent

##### Incubation:

Temperature: 37°C

Atmosphere: Aerobic with 5% CO<sub>2</sub>

##### 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 24 hours.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Neisseria meningitidis*, Strain 63006, NR-32112."

#### 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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

#### Disclaimers:

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**References:**

1. Professor Lee H. Harrison, Personal Communication.
2. Knapp, J. S. "Historical Perspectives and Identification of *Neisseria* and Related Species." Clin. Microbiol. Rev. 1 (1988): 415-431. PubMed: 3069201.
3. Rosenstein, N. E., et al. "Meningococcal Disease." N. Engl. J. Med. 344 (2001): 1378-1388. PubMed: 11333996.
4. Harrison, L. H., C. L. Trotter and M. E. Ramsay. "Global Epidemiology of Meningococcal Disease." Vaccine 27 (2009): B51-B63. PubMed: 19477562.
5. Bratcher, H. B., J. S. Bennett and M. C. J. Maiden. "Evolutionary and Genomic Insights into Meningococcal Biology." Future Microbiol. 7 (2012): 873-885. PubMed: 22827308.
6. Swartley, J. S., et al. "Capsule Switching of *Neisseria meningitidis*." Proc. Natl. Acad. Sci. USA 94 (1997): 271-276. PubMed: 8990198.

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