**Neisseria meningitidis, Strain NM3222**

**Catalog No. NR-32215**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

**Bacteria Classification:** Neisseriaceae, Neisseria

**Species:** Neisseria meningitidis

**Strain:** NM3222

**Serogroup:** Y

**Original Source:** Neisseria meningitidis (N. meningitidis), strain NM3222 was isolated from a human disease case in the United States, 2009.¹

**Comment:** The complete genome for N. meningitidis, strain NM3222 was sequenced at the Genomic Sequencing Center for Infectious Diseases at University of Maryland School of Medicine (GenBank: APUU00000000).

*N. meningitidis* is an aerobic, Gram-negative diplococcus and is the leading causative agent of human bacterial meningitis.² This organism commonly exists asymptomatically as a commensal bacterium in the nasopharynx and is transmitted by aerosol or secretion.³ 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.¹,⁴ *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.¹,⁴ Polysaccharide vaccines are available for serogroups A, C, W-135 and Y but limited for serogroup B.¹,⁴

**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-32215 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® medium 2167) or equivalent

Chocolate Agar (GC Medium; ATCC® medium 814) or equivalent

**Incubation:**

Temperature: 37°C

Atmosphere: Aerobic with 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 tube, slant and/or plate at 37°C for 24 to 48 hours.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Neisseria meningitidis, Strain NM3222, NR-32215.”

**Biosafety Level:**

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**Disclaimers:**

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References:
1. L. H. Harrison, Personal Communication.

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