

***Neisseria gonorrhoeae*, Strain 1145734**

Catalog No. NR-56644

For research use only. Not for use in humans.

Contributor and Manufacturer:

ATCC®

Product Description:

Bacteria Classification: *Neisseriaceae*, *Neisseria*

Species: *Neisseria gonorrhoeae*

Strain: 1145734

Original Source: *Neisseria gonorrhoeae* (*N. gonorrhoeae*), strain 1145734 was isolated in 2014 from a urine sample of a 30-year-old male in Chile.

Comments: *N. gonorrhoeae*, strain 1145734 was deposited as part of the Global Priority Superbugs Collection. NR-56644 was deposited as resistant to ciprofloxacin and tetracycline.

N. gonorrhoeae is a Gram-negative, aerobic to facultatively anaerobic, diplococcal bacteria that colonizes the genital, rectal and oral mucosa and is the causative agent of gonorrhea, a sexually transmitted infection of the genital tract.^{1,2} Gonorrheal infections may also occur in the rectum, pharynx and eyes. Left untreated, disseminated gonorrheal infection (DGI) may develop, resulting in septic arthritis, endocarditis and skin manifestations.^{2,3} While once easily treatable with antibiotics, *N. gonorrhoeae* is rapidly developing resistance to every major class of antibiotics.^{2,3}

Material Provided:

Each vial contains approximately 0.3 mL of bacterial culture in Chocolate broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-56644 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:

Haemophilus Test medium broth or Chocolate broth or equivalent

Chocolate agar 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 1 day.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Neisseria gonorrhoeae*, Strain 1145734, NR-56644.”

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Knapp, J. S. “Historical Perspectives and Identification of *Neisseria* and Related Species.” *Clin. Microbiol. Rev.* 4 (1988): 415-431. PubMed: 3069201.
2. Lovett, A. and J. A. Duncan. “Human Immune Responses and the Natural History of *Neisseria gonorrhoeae*

- Infection." Front. Immunol. 19 (2019): 3187. PubMed: 30838004.
3. Quillin, S. J. and H. S. Seifert. "*Neisseria gonorrhoeae* Host Adaptation and Pathogenesis." Nat. Rev. Microbiol. 16 (2018): 226-240. PubMed: 29430011.

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