Bordetella holmesii, Strain 44057

Catalog No. NR-43501

For research use only. Not for human use.

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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Alcaligenaceae, Bordetella
Species: Bordetella holmesii
Strain: 44057
Original Source: Bordetella holmesii (B. holmesii), strain 44057 was isolated in November 2011 from a bloodstream sample of a 7-year-old patient in New York, New York, USA.\(^1\,2\)
Comments: Strain 44057 was deposited as a brown pigment producing strain.\(^1\) The complete genome sequence of B. holmesii strain 44057 has been sequenced (GenBank: ANGE000000000).

B. holmesii is a Gram-negative, fastidious, non-motile coccobacilli that produces a brown soluble pigment and is closely related to Bordetella pertussis.\(^3\,5\) It is an emerging opportunistic pathogen that has been linked to invasive infections among immunocompromised patients, particularly those lacking splenic function. In healthy individuals, it can cause respiratory disease, including a pertussis-like illness.\(^4\,6\)

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:
NR-43501 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:
Tryptic Soy broth or Brain Heart Infusion broth or Bordet Gengou broth or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or Bordet Gengou agar or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Aerobic with or without 5% CO\(_2\)

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 2 to 7 days.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Bordetella holmesii, Strain 44057, NR-43501."

Biosafety Level: 2

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References:
2. GenBank ANGE00000000

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