Helicobacter pylori, Strain R056a

Catalog No. NR-43737

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Contributor:
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Manufacturer:
BEI Resources

Product Description:

Bacteria Classification: Helicobacteraceae, Helicobacter
Species: Helicobacter pylori
Strain: R056a
Original Source: Helicobacter pylori (H. pylori), strain R056a was isolated from gastric biopsy homogenate of an asymptomatic post-menopausal female patient in Alberta, Canada.1,2

Comments: H. pylori, strain R056a is part of a genome sequencing project at the Institute for Genome Sciences at the University of Maryland.2,3 The complete genome of H. pylori, strain R056a has been sequenced (GenBank: AMOY0000000).

H. pylori is a microaerophilic, Gram-negative, nonsporulating, spiral-shaped and flagellated rod commonly found in the human stomach, present in about half of the world population.4,5 It is an opportunistic pathogen linked to diseases of the upper gastrointestinal tract including: gastric and duodenal ulcers, chronic gastritis, and stomach cancer.2 H. pylori infections are difficult to cure and successful treatment generally requires the administration of several antibacterial agents simultaneously.6,7

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

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

Packaging/Storage:
NR-43737 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 Brucella broth or equivalent
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Brucella agar or Columbia agar with 7% defibrinated horse blood, 5 µg/mL trimethoprim, 5 µg/mL vancomycin, 10 µg/mL cefsulodin and 2.5 µg/mL amphotericin B or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO2 or Microaerophilic

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 5 days

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Helicobacter pylori, Strain R056a, NR-43737.”

Biosafety Level: 2


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**References:**

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