

# **Product Information Sheet for NR-43683**

# Helicobacter pylori, Strain Hp H-11

# Catalog No. NR-43683

## For research use only. Not for human use.

## **Contributor:**

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#### Manufacturer:

**BEI Resources** 

## **Product Description:**

Bacteria Classification: Helicobacteraceae, Helicobacter

Species: Helicobacter pylori

Strain: Hp H-11

<u>Original Source</u>: *Helicobacter pylori* (*H. pylori*), strain Hp H-11 was isolated from gastric biopsy homogenate of a patient with gastritis in Ohio, USA.<sup>1,2</sup>

<u>Comments</u>: *H. pylori*, strain Hp H-11 is part of a genome sequencing project at the <u>Institute for Genome Sciences</u> at the University of Maryland.<sup>2,3</sup> The complete genome of *H. pylori*, strain Hp H-11 has been sequenced (GenBank: AKPC00000000).

*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.<sup>4,5</sup> It is an opportunistic pathogen linked to diseases of the upper gastrointestinal tract including: gastric and duodenal ulcers, chronic gastritis, and stomach cancer.<sup>2</sup> *H. pylori* infections are difficult to cure and successful treatment generally requires the administration of several antibacterial agents simultaneously.<sup>6,7</sup>

#### **Material Provided:**

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

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

## Packaging/Storage:

NR-43683 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. Freezethaw 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  $\mu$ g/mL trimethoprim, 5  $\mu$ g/mL vancomycin, 10  $\mu$ g/mL cefsulodin and 2.5  $\mu$ g/mL amphotericin B<sup>1</sup> or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Microaerophilic (~ 6-16% O<sub>2</sub> and 2-10% CO<sub>2</sub>)

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 37°C for 2 to 3 days.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Helicobacter pylori*, Strain Hp H-11, NR-43683."

## 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/bmbl5/index.htm.

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#### References:

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