

**Helicobacter pylori, Strain CPY6271**

**Catalog No. NR-43641**

**Product Description:**

*Helicobacter pylori* (*H. pylori*), strain CPY6271 was isolated from gastric biopsy homogenate from a gastric cancer patient in Yamaguchi Prefecture, Japan. NR-43641 was produced by inoculation of the deposited material into Brucella broth, which was used to inoculate a 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 plate and grown for 3 days at 37°C in a microaerophilic atmosphere (~ 6-16% O<sub>2</sub> and 2-10% CO<sub>2</sub>). Colonies from the plate were suspended in Brucella broth and used to inoculate 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 kolles, which were grown for 3 days at 37°C in a microaerophilic atmosphere to produce this lot.

**Lot: 70029279**

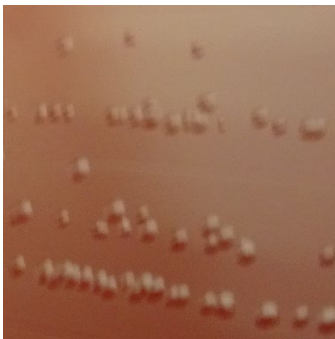
**Manufacturing Date: 14NOV2019**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>1</sup>  Motility Analytical profile index (API® CAMPY)	Gram-negative rods Report results  Report results <i>H. pylori</i> (≥ 90%)	Gram-negative rods Circular, low convex, entire, smooth and translucent (Figure 1) Motile <i>H. pylori</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to <i>H. pylori</i> , strain CPY6271 (GenBank: AKNP01000008.1)	100% sequence identity to <i>H. pylori</i> , strain CPY6271 (GenBank: AKNP01000008.1)
<b>Confirmation of <i>H. pylori</i> by PCR Amplification of Extracted DNA</b> Positive control (16S ribosomal RNA gene) Negative control ( <i>H. acinonychis</i> ) <i>ureA</i> <i>ssaA</i>	Amplicon present No amplicon present Amplicon present Amplicon present	Amplicon present No amplicon present Amplicon present Amplicon present
<b>Purity (post-freeze)</b> 10 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood Microaerophilic growth  Aerobic growth <sup>2</sup>	Consistent with expected colony morphology Consistent with expected colony morphology	Consistent with expected colony morphology Consistent with expected colony morphology
<b>Viability (post-freeze)<sup>1</sup></b>	Growth	Growth

<sup>1</sup>3 days at 37°C in a microaerophilic atmosphere on 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

<sup>2</sup>*H. pylori* is known to show weak growth under aerobic conditions (Bury-Moné, S., et al. "Is *Helicobacter pylori* a True Microaerophile?" *Helicobacter* 11 (2006): 296-303. PubMed: 16882333).

Figure 1: Colony Morphology



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