

***Helicobacter pylori*, Strain Hp CPY6081**

Catalog No. NR-43639

Product Description:

Helicobacter pylori (*H. pylori*), strain Hp CPY6081 was isolated from gastric biopsy homogenate from a gastric cancer patient in Yamaguchi Prefecture, Japan.

Lot: 70029280¹

Manufacturing Date: 03OCT2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² 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 gray (Figure 1) Motile <i>H. pylori</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1330 base pairs)	≥ 99% sequence identity to <i>H. pylori</i> , strain Hp CPY6081 (GenBank: AKNN01000009.1)	100% sequence identity to <i>H. pylori</i> , strain Hp CPY6081 (GenBank: AKNN01000009.1)
Confirmation of <i>H. pylori</i> by PCR amplification of Extracted DNA Positive control (16S ribosomal RNA gene) Negative control (<i>H. acinonychis ureA ssaA</i>)	Amplicon present No amplicon present Amplicon present Amplicon present	Amplicon present No amplicon present Amplicon present Amplicon present
Purity (post-freeze) Microaerophilic growth ³ Aerobic growth ^{4,5}	Consistent with expected colony morphology Consistent with expected colony morphology	Consistent with expected colony morphology Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-43639 was produced by inoculation of NRS-43639 lot 63734557 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% O₂ and 2-10% CO₂). 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.

²3 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

³Purity of this lot was assessed for 7 days 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 at 37°C in a microaerophilic atmosphere.

⁴Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO₂.

⁵*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



/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

04 FEB 2020

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