Certificate of Analysis for NR-43639

Helicobacter sp., Strain Hp CPY6081 (deposited as *Helicobacter pylori,* Strain Hp CPY6081)

Catalog No. NR-43639

Product Description:

Helicobacter sp., strain Hp CPY6081 (also referred to as CPY6081) was isolated from gastric biopsy homogenate from a gastric cancer patient in Yamaguchi Prefecture, Japan. NR-43639 was deposited to BEI Resources as *Helicobacter pylori*; however, digital DNA-DNA hybridization (dDDH) analysis performed at BEI Resources resulted in reclassification to *Helicobacter* sp. NR-43639 was produced by inoculation of BEI Resources seed 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 both were grown for 3 days at 37°C in a microaerophilic atmosphere (~ 6-16% O_2 and 2-10% CO_2). Colonies from the plate were suspended in Brucella broth and the growth mixture was added to 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70029280 **Manufacturing Date: 03OCT2019**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, low convex, entire, smooth and gray (Figure 1)
Motility (wet mount)	Report results	Motile
Analytical profile index (API® CAMPY)	*H. pylori* (≥ 90%)	*H. pylori* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1330 base pairs)	≥ 99% sequence identity to *H. pylori*, strain Hp CPY6081 (GenBank: AKNN01000009.1)	100% sequence identity to *H. pylori*, strain Hp CPY6081 (GenBank: AKNN01000009.1)
Confirmation of *H. pylori* by PCR amplification of Extracted DNA		
Positive control (16S rRNA gene)	Amplicon present	Amplicon present
Negative control *(H. acinonychis)*	No amplicon present	No amplicon present
ureA	Amplicon present	Amplicon present
ssaA	Amplicon present	Amplicon present
Purity (post-freeze)		
Microaerophilic growth[1]	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[2,3]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]Purity 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.
[2]Purity 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% CO_2.
[3]*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.).

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Figure 1: Colony Morphology

/Sonia Bjorum Brower/
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Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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