Certificate of Analysis for NR-43640

Helicobacter sp., Strain Hp CPY6261 (deposited as *Helicobacter pylori,* Strain Hp CPY6261)

Catalog No. NR-43640

Product Description:

Helicobacter sp., strain Hp CPY6261 (also referred to as CPY6081) was isolated from the gastric biopsy homogenate from a gastric cancer patient in Yamaguchi Prefecture, Japan. NR-43640 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. The designation on the vial label refers to the old nomenclature. Note: The strain designation on the vial label is incorrect. The correct strain designation is Hp CPY6261. NR-43640 was produced by inoculation of the deposited material onto a Tryptic Soy agar with 5% defibrinated sheep blood slant and Brucella broth and grown for 2 days at 37°C in a microaerophilic atmosphere (~ 6-16% O2 and 2-10% CO2). The Brucella broth was used to inoculate an additional Tryptic Soy agar with 5% defibrinated sheep blood slant which was grown for 3 days under the propagation conditions. Colonies were suspended in Brucella broth and used to inoculate Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 3 days under propagation conditions to produce this lot.

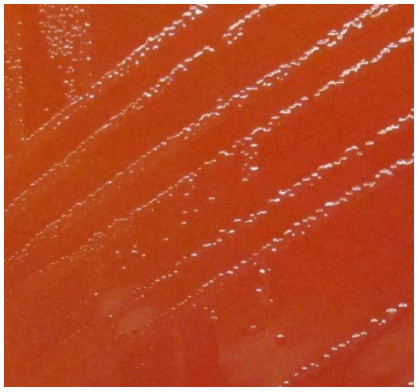
Lot: 62910845 **Manufacturing Date: 16OCT2014**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[1]	Report results	Circular, low convex, entire and translucent (Figure 1)
Motility (wet mount)	Report results	Motile
Analytical profile index (API® CAMPY)	Consistent with *Helicobacter pylori*	Consistent with *Helicobacter pylori*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to *H. pylori*, strain CPY6261 (GenBank: AKNN01000007.1)	99.9% sequence identity to *H. pylori*, strain CPY6261 (GenBank: AKNO01000001.1)
Purity (post-freeze)		
Microaerophilic growth[2]	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[3,4]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[1]	Growth	Growth

[1]3 days on Tryptic Soy agar with 5% defibrinated sheep blood under propagation conditions
[2]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in a microaerophilic atmosphere (~ 6-16% O_2 and 2-10% CO_2).
[3]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.
[4]*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.).

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower 06 JAN 2026
Technical Manager or designee, ATCC Federal Solutions

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Support Provided by NIAID

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898