# 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. 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 CPY6081. NR-43639 was produced by inoculation of the deposited material into Brucella broth and grown for 4 days at 37°C in a microaerophilic atmosphere (~ 6-16% O2 and 2-10% CO2). Broth inoculum was 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. Colonies from the agar growth were suspended in Brucella broth and the mixture was 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 2 days 37°C in a microaerophilic atmosphere to produce this lot.

**Lot: 63734558** **Manufacturing Date: 28OCT2014**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Phenotypic Analysis** | | |
| Cellular morphology | Gram-negative rods | Gram-negative rods |
| Colony morphology[1] | Report results | Circular, raised, entire, smooth and gray (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 (~ 1390 base pairs) | ≥ 99% sequence identity to *H. pylori*, strain CPY6081 (GenBank: AKNN01000007.1 and AKNN01000009.1) | 100% sequence identity to *H. pylori*, strain CPY6081 (GenBank: AKNN01000007.1 and AKNN01000009.1) |
| **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]2 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 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 (~ 6-16% $O_2$ and 2-10% $CO_2$).

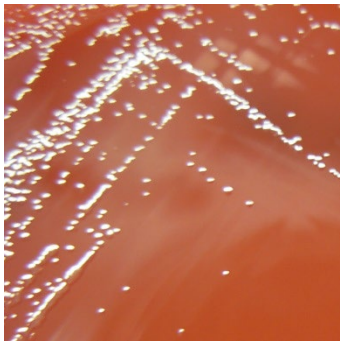
[3]Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% $CO_2$.

[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

# Certificate of Analysis for NR-43639

**Figure 1: Colony Morphology**



/Sonia Bjorum Brower/
Sonia Bjorum Brower 06 JAN 2026
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



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