b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-43653

Helicobacter pylori, Strain Hp A-4

Catalog No. NR-43653

Product Description: *Helicobacter pylori* (*H. pylori*), strain Hp A-4 was isolated from gastric biopsy homogenate of a patient with a duodenal ulcer in Ohio, USA.

Lot[1]: 63734559 **Manufacturing Date: 12OCT2015**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[2]	Report results	Circular, raised, entire and smooth (Figure 1)
Motility (wet mount)	Report results	Motile
Analytical profile index (API® CAMPY)	Consistent with *H. pylori*	Consistent with *H. pylori*
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1390 base pairs)	Consistent with *H. pylori*	Consistent with *H. pylori*
Purity (post-freeze)		
Microaerophilic growth[3]	Consistent with expected colony morphology	Consistent with expected colony morphology
Aerobic growth[4,5]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]NR-43653 was produced by inoculation of the deposited material onto 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, and Brucella broth and both grown for 4 days at 37°C in a microaerophilic atmosphere (~ 6-16% O_2 and 2-10% CO_2). Colonies from the plate were scraped into the Brucella broth growth and the 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 37°C in a microaerophilic atmosphere to produce this lot.

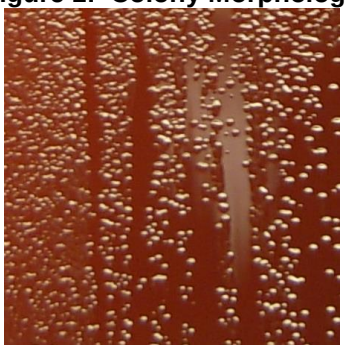
[2]3 days on Columbia agar with 7% defibrinated horse blood, 5 µg/mL trimethoprim, 5 µg/mL vancomycin, 10 µg/mL cefsulodin and 2.5 µg/mL amphotericin B at 37°C in a microaerophilic atmosphere

[3]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).

[4]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.

[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



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Certificate of Analysis for NR-43653

Date: 16 FEB 2016 **Signature:**

BEI Resources Authentication

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.

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