

Certificate of Analysis for HM-274

***Helicobacter* sp., Strain 35A (deposited as *Helicobacter pylori*, Strain 35A)**

Catalog No. HM-274

Product Description:

Helicobacter sp., strain 35A (also referred to as 35A) was isolated from a human stomach. HM-274 was deposited to BEI Resources as *Helicobacter pylori* (*H. 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. HM-274 was produced by inoculation of BEI Resources seed lot 59945179 into Tryptic Soy broth and grown for 3 days at 37°C in a microaerophilic atmosphere (~ 6-16% O₂ and 2-10% CO₂). Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood 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.

Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 0002020

Manufacturing Date: 29SEP2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 3 days at 37°C in a microaerophilic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Motility (wet mount)	Gram-negative rods Report results Report results	Gram-negative rods Circular, low convex, entire, smooth and gray (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 800 base pairs)	≥ 99% sequence identity to <i>H. pylori</i> , strain 35A (GenBank: CP002096.1)	≥ 99.6% sequence identity to <i>H. pylori</i> , strain 35A (GenBank: CP002096.1)
Purity (post-freeze) Microaerophilic growth 7 days at 37°C in a microaerophilic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood Aerobic growth ¹ 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology Growth consistent with expected colony morphology	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Viability (post-freeze) 3 days at 37°C in a microaerophilic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

¹*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

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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