

***Helicobacter pylori*, Strain R046Wa**

Catalog No. NR-43735

Product Description: *Helicobacter pylori* (*H. pylori*), strain R046Wa was isolated from gastric biopsy homogenate from an asymptomatic post-menopausal female patient in Alberta, Canada.

Lot¹: 64136579

Manufacturing Date: 25APR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Biochemical characterization Catalase Oxidase Urease Nitrate reduction H ₂ S (lead acetate paper) Hippurate hydrolysis Growth with 5% CO ₂ Growth at 25°C Growth at 37°C Growth at 42°C Brucella albimi + 0.16% agar (growth control) Brucella albimi + 0.16% agar with 1% glycine Brucella albimi + 0.16% agar with 3.5% NaCl	Gram-negative rods Report results Report results Positive Positive Positive Negative Report results Negative Growth No growth Growth Report results Growth No growth No growth	Gram-negative rods Circular, low convex, entire, smooth and gray (Figure 1) Motile Positive Positive Positive Negative Positive Negative Growth No growth Growth Growth Growth No growth No growth
Antibiotic Susceptibility Profile BD BBL™ Sensi-Disc™ susceptibility test discs Metronidazole (80 µg) ³ Nalidixic acid (30 µg) ⁴	Report results Report results	50 mm 6 mm
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 910 base pairs)	≥ 99% sequence identity to <i>H. pylori</i> , strain R046Wa (GenBank: AMOW01000005)	100% sequence identity to <i>H. pylori</i> , strain R046Wa (GenBank: AMOW01000005.1)
Confirmation of <i>H. pylori</i> by PCR Amplification of Extracted DNA Positive control (16S ribosomal RNA gene) Negative control (<i>H. acinonychis</i>) <i>ureA</i> <i>ssaA</i>	Amplicon present No amplicon present Amplicon present Amplicon present	Amplicon present No amplicon present Amplicon present Amplicon present
Purity (post-freeze) Microaerophilic growth ⁵ Aerobic growth ⁶	Consistent with expected colony morphology Consistent with expected colony morphology	Consistent with expected colony morphology Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-43735 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). The initial growth material was passaged once on Tryptic Soy agar with 5% defibrinated sheep blood for 4 days at

Certificate of Analysis for NR-43735

37°C in an aerobic atmosphere with 5% CO₂. Colonies were suspended in Brucella broth and 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 4 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

²3 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

³Test performed using metronidazole 80 µg (MET-80, BBL™ catalog no. 231605)

⁴Test performed using nalidixic acid 30 µg (NA-30, BBL™ catalog no. 230874)

⁵Purity of this lot was assessed for 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.

⁶Purity 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% CO₂.

Figure 1: Colony Morphology



Date: 09 AUG 2016

Signature:

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