

***Helicobacter pylori*, Strain R056a**

**Catalog No. NR-43737**

**Product Description:** *Helicobacter pylori* (*H. pylori*), strain R056a was isolated from gastric biopsy homogenate from an asymptomatic post-menopausal female patient in Alberta, Canada.

**Lot<sup>1</sup>: 64136584**

**Manufacturing Date: 11MAY2016**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) Biochemical characterization Catalase Oxidase Urease Nitrate reduction H <sub>2</sub> S (lead acetate paper) Hippurate hydrolysis Growth with 5% CO <sub>2</sub> 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 Growth No growth No growth
<b>Antibiotic Susceptibility Profile</b> BD BBL™ Sensi-Disc™ susceptibility test discs Metronidazole (80 µg) <sup>3</sup> Nalidixic acid (30 µg) <sup>4</sup>	Report results Report results	54 mm 6 mm
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs)	≥ 99% sequence identity to <i>H. pylori</i> , strain R056a (GenBank: AMOY01000003)	100% sequence identity to <i>H. pylori</i> , strain R056a (GenBank: AMOY01000003.1)
<b>Confirmation of <i>H. pylori</i> by PCR Amplification of Extracted DNA</b> 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
<b>Purity (post-freeze)</b> Microaerophilic growth <sup>5</sup>  Aerobic growth <sup>6</sup>	Consistent with expected colony morphology Consistent with expected colony morphology	Consistent with expected colony morphology Consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-43737 was produced by inoculation of the deposited material into Brucella broth. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood. The inoculated broth was grown for 3 days at 37°C in a microaerophilic atmosphere (~ 6-16% O<sub>2</sub> and 2-10% CO<sub>2</sub>) and the inoculated agar was grown for 3 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. Colonies from the Tryptic Soy agar culture were

suspended into the Brucella broth growth, and this biphasic culture was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles, which were grown for 2 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

<sup>2</sup>5 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

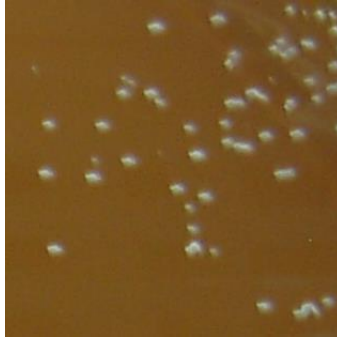
<sup>3</sup>Test performed using metronidazole 80 µg (MET-80, BBL™ catalog no. 231605)

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

<sup>5</sup>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.

<sup>6</sup>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<sub>2</sub>.

Figure 1: Colony Morphology



Date: 05 AUG 2016

Signature:

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