Certificate of Analysis for HM-273

Helicobacter pylori, Strain 83

Catalog No. HM-273

Product Description:

Helicobacter pylori (H. pylori), strain 83 was isolated in 2007 from a human stomach. HM-273 lot 70029281 was produced by the inoculation of BEI Resources HM-273 lot 61855877 into Tryptic Soy broth, which was used to inoculate Tryptic Soy agar with 5% defibrinated sheep blood plates and grown for 3 days at 37°C in a microaerophilic atmosphere (6-16% O_2 and 2-10% CO_2; BD GasPak™ EZ Campy) and an aerobic atmosphere with 5% CO_2. After a hold at room temperature for 2 days, colonies were then suspended in Tryptic Soy broth and used to inoculate Tryptic Soy agar with 5% sheep blood kolles for 2 days at 37°C in a microaerophilic atmosphere to produce this lot.

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: 70029281 **Manufacturing Date: 04OCT2019**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative bacilli	Gram-negative bacilli
Colony morphology 3 days on Tryptic Soy Agar with 5% defibrinated sheep blood	Report results	Circular, convex, entire, smooth and translucent (Figure 1)
Motility (wet mount)	Report results	Motile[1]
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99% sequence identity to *H. pylori,* strain 83 (GenBank: CP002605.1)	100% sequence identity to *H. pylori,* strain 83 (GenBank: CP002605.1)
Purity (post-freeze)		
7 days at 37°C in a microaerophilic atmosphere in Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology	Consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with 5% CO_2 in Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)		
3 days at 37°C in a microaerophilic atmosphere on Tryptic Soy agar with 5% sheep blood	Growth	Growth

[1]*H. pylori* is known to be a motile organism. The first lot of this item was reported to be non-motile. Sequencing of the 16S ribosomal gene confirms that both lots of HM-273 are consistent with *H. pylori.*

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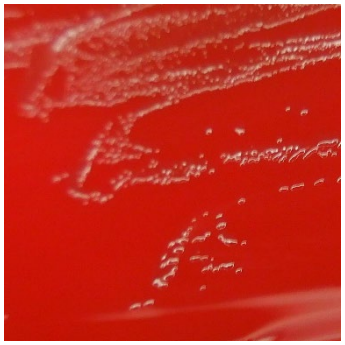
Figure 1: Colony Morphology



/Heather Couch/
Heather Couch 17 APR 2020
Program 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.

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