Certificate of Analysis for NR-51339

Escherichia coli, Strain YMC

Catalog No. NR-51339

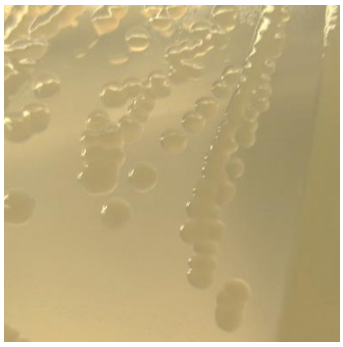
Product Description: *Escherichia coli (E. coli)*, strain YMC is a laboratory strain used for bacteriophage studies. *E. coli*, strain YMC is a host bacterium for phi05_1658M, phi05_1706M and phi06_2987S, all temperate phages.

Lot[1]: 70017418 **Manufacturing Date: 25JUL2018**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[2]	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*E. coli*	*E. coli* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (1480 base pairs)	≥ 99% sequence identity with *E. coli* type strain (GenBank: JMST01000030.1)	99.7% sequence identity with *E. coli* type strain (GenBank: JMST01000030.1)[3]
Purity (post-freeze)[4]	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]NR-51339 was produced by inoculation of BEI Resources HMC-657 lot 59773826 into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
[3]Also consistent with *Shigella* and other *Escherichia* species
[4]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch 13 FEB 2019
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.

Support Provided by NIAID

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