Certificate of Analysis for NR-50351

Escherichia coli, Strain GM2163λpir

Catalog No. NR-50351

Product Description:

Escherichia coli (E. coli), strain GM2163λpir contains the *pir* genes which allow genetic manipulations of vectors prior to transfer into *Staphylococcus* species. This strain is also a Dam and Dcm methylase mutant for transfer of plasmids into *Staphylococcus* isolates that do not accept *E. coli* DNA easily. Strain GM2163λpir has genotype F⁻*ara-14 leuB6 fhuA31 lacY1 tsx78 glnV44 galK2 galT22 mcrA dcm-6 hisG4 rfbD1 rpsL136 dam13*::Tn*9 xylA5 mtl-1 thi-1 mcrB1 hsdR2 λpir*. NR-50351 was produced by inoculation of the deposited material in Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot.

Lot: 2097 **Manufacturing Date: 27OCT2016**

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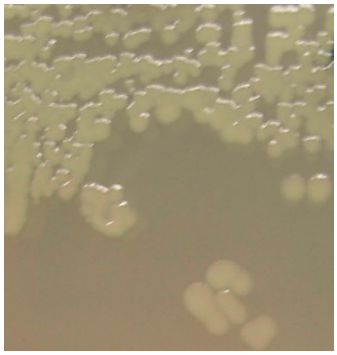
TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*E. coli*	*E. coli* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 790 base pairs)	≥ 99% sequence identity to *E. coli* DH5α (GenBank: JRBB01000068)	100% sequence identity to *E. coli* DH5α (GenBank: JRBB01000068)[1]
Riboprinter® Microbial Characterization System	≥ 85% *E. coli*	84% *E. coli*[2]
Purity (post-freeze) 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
Viability (post-freeze) 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth

[1]Also 99.9% sequence identity to some *Shigella flexneri* strains
[2]Although this item did not have a similarity value greater than 85%, the nearest match for each of conditions under which the test was performed was *E. coli*, and there is no indication that this item is other than *E. coli*.

Figure 1: Colony Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 10 APR 2023
Technical Manager or designee, ATCC Federal Solutions

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Support Provided by NIAID

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