

Escherichia coli*, Strain GM2163 λ pir*Catalog No. NR-50351**

Product Description: *Escherichia coli* (*E. coli*), strain GM2163 λ pir 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 GM2163 λ pir has genotype F⁻*ara-14 leuB6 fhuA31 lacY1 tsx78 glnV44 galK2 galT22 mcrA dcm-6 hisG4 rfbD1 rpsL136 dam13::Tn9 xylA5 mtl-1 thi-1 mcrB1 hsdR2* λ pir.

Lot¹: 2097**Manufacturing Date: 27OCT2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK [®] MS (MALDI-TOF)	Gram-negative rods Report results Report results Consistent with <i>E. coli</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>E. coli</i> (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 790 base pairs) Riboprinter [®] Microbial Characterization System	≥ 99% sequence identity to <i>E. coli</i> DH5 α (GenBank: JRBB01000068) ≥ 85% <i>E. coli</i>	100% sequence identity to <i>E. coli</i> DH5 α (GenBank: JRBB01000068) ³ 84% <i>E. coli</i>⁴
Confirmation of Trimethoprim Resistance²	Growth	Growth
Purity (post-freeze)⁵	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

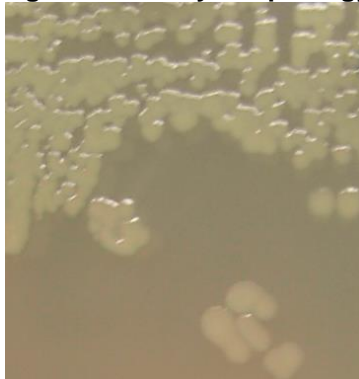
¹NR-50351 was produced by inoculation of the deposited material in Tryptic Soy broth and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles for 1 day at 37°C in an aerobic atmosphere to produce this lot.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

³Also 99.9% sequence identity to some *Shigella flexneri* strains

⁴Although 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*.

⁵Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

Figure 1: Colony Morphology

Certificate of Analysis for NR-50351

Date: 10 JAN 2017

Signature:



BEI Resources Authentication

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