Certificate of Analysis for HM-1280

Citrobacter freundii, Strain GED7749C

Catalog No. HM-1280

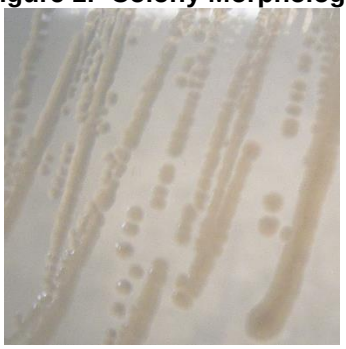
Product Description: *Citrobacter freundii (C. freundii)*, strain GED7749C is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.

Lot[1,2]: 70006642 **Manufacturing Date: 07JUL2017**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rod	Gram-negative rod
Colony morphology[3]	Report results	Circular, convex, translucent and cream (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*C. freundii*	*C. freundii* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 310 base pairs)	≥ 99% sequence identity to *C. freundii*, strain GED7749C (GenBank: LRPR01000003.1)	100% sequence identity to *C. freundii*, strain GED7749C (GenBank: LRPR01000003.1)
(~ 700 base pairs)	≥ 99% sequence identity to depositor's sequence	99.7% sequence identity to depositor's sequence
Purity (post-freeze)[4]	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)[3]	Growth	Growth

[1]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.
[2]*C. freundii*, strain GED7749C was deposited by Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA. HM-1280 was produced by inoculation of the deposited material into Nutrient broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles and incubated for 1 day at 37°C in an aerobic atmosphere to produce this lot.
[3]1 day at 37°C in an aerobic atmosphere on Nutrient agar.
[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 with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



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Date: 01 NOV 2017 **Signature:**

BEI Resources Authentication

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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