Certificate of Analysis for HM-628

Klebsiella oxytoca, Strain MIT 10-5248

Catalog No. HM-628

Product Description:

Klebsiella oxytoca (K. oxytoca), strain MIT 10-5248 was isolated from human blood. HM-628 was produced by inoculation of BEI Resources seed lot 59976237 into Nutrient broth and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

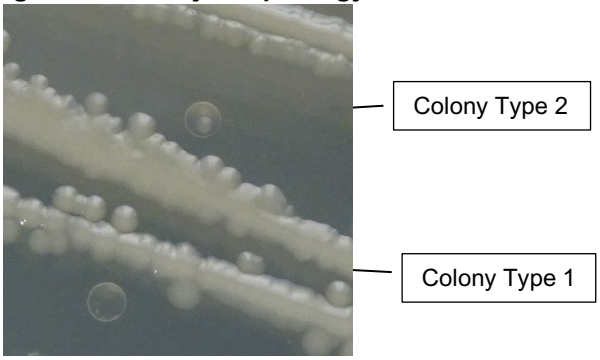
Note: Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

Lot: 70062240 **Manufacturing Date: 20JUL2023**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology[1]	Report results	Colony type 1: Circular, entire, low convex, smooth and cream (Figure 1) Colony type 2: Circular, entire, low convex, smooth and translucent (Figure 1)
Motility (wet mount)	Report results	Non-motile
VITEK® MS (MALDI-TOF)	*K. oxytoca*	*K. oxytoca* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (1470 base pairs)	≥ 99% sequence identity to *K. oxytoca*, strain MIT 10-5248 (GenBank: AKCF01000001.1)	99.9% sequence identity to *K. oxytoca*, strain MIT 10-5248 (GenBank: AKCF01000001.1)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
8 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Two colony types were observed. Plating of the individual colony types showed that they did not revert back to the mixed colony type. The 16S ribosomal RNA gene of each colony type was sequenced and found to be consistent with the other colony type and *K. oxytoca*.

Figure 1: Colony Morphology



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/Sonia Bjorum Brower/
Sonia Bjorum Brower 13 SEP 2023
Technical 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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