

***Klebsiella pasteurii*, Strain MIT 10-5250 (Deposited as *Klebsiella oxytoca*)**
Catalog No. HM-630
Product Description:

Klebsiella pasteurii (*K. pasteurii*) strain MIT 10-5250 was isolated from human urine in Kansas, USA. HM-630 was deposited to BEI Resources as *Klebsiella oxytoca* and later reclassified as *Klebsiella michiganensis*. Further reclassification to *Klebsiella pasteurii* has been proposed. Digital DNA-DNA hybridization (dDDH) analysis performed at BEI Resources supports the reclassification of strain MIT 10-5250 to *Klebsiella pasteurii*. **The species designation on the vial label refers to the original nomenclature.** HM-630 was produced by inoculation of BEI Resources seed lot 59976240 into 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. 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: 70065863
Manufacturing Date: 31JAN2024

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount)	Gram-negative rods Report results Report results	Gram-negative rods Circular, convex, entire, mucoid, smooth and cream (Figure 1) Non-motile
Genotypic Analysis Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1460 base pairs) Sequencing of 16S rRNA gene (~ 1460 base pairs)	≥ 99% sequence identity to <i>K. michiganensis</i> , strain MIT 10-5250 (GenBank: AGDP01000012.1) ≥ 99% sequence identity to <i>K. pasteurii</i> type strain (GenBank: CABGHC010000001.1)	99.5% sequence identity to <i>K. michiganensis</i> , strain MIT 10-5250 (GenBank: AGDP01000012.1) ¹ 99.7% sequence identity to <i>K. pasteurii</i> type strain (GenBank: CABGHC010000001.1) ¹
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹*K. michiganensis* and *K. pasteurii* cannot be differentiated by 16S rRNA sequencing (Yang, J., et al. "*Klebsiella oxytoca* Complex: Update on Taxonomy, Antimicrobial Resistance, and Virulence." *Clin. Microbiol. Rev.* 35 (2022): e0000621. PubMed: 34851134.).

Figure 1: Colony Morphology


/Sonia Bjorum Brower/

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25 SEP 2024

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