**Klebsiella michiganensis**, Strain MIT 10-5242

Catalog No. HM-623

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Enterobacteriaceae, Klebsiella
Species: *Klebsiella michiganensis*

Previously referred to as *Klebsiella oxytoca*, this species has been reclassified.¹

Strain: MIT 10-5242 (also referred to as 10-5242)

Original Source: *Klebsiella michiganensis* (K. michiganensis), Strain MIT 10-5242 was isolated from human bone in Kansas, USA.²,³

Comments: K. michiganensis, strain MIT 10-5242 (HMP ID 9686) is a reference genome for The Human Microbiome Project (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *K. michiganensis*, strain MIT 10-5242 was sequenced at the Broad Institute (GenBank: AGDI00000000).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

*K. michiganensis* is a non-motile, Gram-negative, rod-shaped bacterium that causes frequent nosocomial infections of the urinary and respiratory tracts. It is ubiquitous in the environment and is often isolated from the skin, mucous membranes and intestines of humans and animals.⁴ Due to the extensive spread of antibiotic-resistant strains, especially of extended-spectrum β-lactamase (ESBL)-producing strains, there has been renewed interest in *K. michiganensis* infections.⁵,⁶

*K. michiganensis*, strain MIT 10-5242 was deposited as an ampicillin-resistant strain that is negative for a cytotoxin that has been associated with hemorrhagic colitis.²

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
HM-623 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Media: Tryptic Soy Broth or equivalent
Tryptic Soy Agar or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic

Propagation:
1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Klebsiella michiganensis, Strain MIT 10-5242, HM-623."

Biosafety Level: 2


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References:
2. Fox J.G., Personal Communication.
3. HMP 9686 (Klebsiella oxytoca, strain MIT 10-5242)

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