Klebsiella oxytoca, Strain MIT 10-5245

Catalog No. HM-626

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 oxytoca
Strain: MIT 10-5245 (also referred to as 10-5245)
Original Source: Klebsiella oxytoca (K. oxytoca), strain MIT 10-5245 was isolated from human urine in Kansas, USA and is resistant to ampicillin.1,2
Comments: K. oxytoca, strain MIT 10-5245 (HMP ID 9689) 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. oxytoca, strain MIT 10-5245 was sequenced at the Broad Institute (GenBank: AGDL0000000). 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. oxytoca 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.3 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. oxytoca infections.4,5

K. oxytoca, strain MIT 10-5245 is negative for a cytotoxin that has been associated with hemorrhagic colitis.1

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-626 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. Freezethaw cycles should be avoided.

Growth Conditions:
Media:
Tryptic Soy broth or equivalent
Tryptic Soy agar or equivalent
Incubation:
Temperature: 35°C to 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 oxytoca, Strain MIT 10-5245, HM-626."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories, 6th ed.

Disclaimers:
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Product Information Sheet for HM-626

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References:
1. Fox, J. G., Personal Communication.
2. HMP ID 9689 (Klebsiella oxytoca, strain MIT 10-5245)

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