

Mobiluncus mulieris, Strain UPII 28-I

Catalog No. HM-125

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Actinomycetaceae*, *Mobiluncus*

Species: *Mobiluncus mulieris*

Strain: UPII 28-I (also referred to as 28-1)

Original Source: *Mobiluncus mulieris* (*M. mulieris*), strain UPII 28-I was isolated from a human vaginal cavity.¹

Comments: *M. mulieris*, strain UPII 28-I ([HMP ID 0578](#)) 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 *M. mulieris*, strain UPII 28-I was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ADB000000000](#)).

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.

M. mulieris is a motile, anaerobic, rod-shaped bacterium commonly found in vaginal microbiota. It is often described as Gram-negative or variable but has a multilayered, Gram-positive cell wall.^{2,3} Although *M. mulieris* is commonly found in healthy individuals, it is among the anaerobic organisms most highly associated with bacterial vaginosis.^{4,5}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Enriched Tryptic Soy agar medium supplemented with 10% glycerol.

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

Packaging/Storage:

HM-125 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:

Enriched Tryptic Soy agar medium or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

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 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Mobiluncus mulieris*, Strain UPII 28-I, HM-125."

Biosafety Level: 1

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. [HMP ID 0578](#) (*Mobiluncus mulieris*, Strain 28-1)
2. Spiegel, C. A. and M. Roberts. "*Mobiluncus* gen. nov., *Mobiluncus curtisii* subsp. *curtisii* sp. nov., *Mobiluncus curtisii* subsp. *holmesii* subsp. nov., and *Mobiluncus mulieris* sp. nov., Curved Rods from the Human Vagina." *Int. J. Syst. Bacteriol.* 34 (1984): 177-184.
3. Hoyles, L., et al. "Transfer of Members of the Genus *Falcivibrio* to the Genus *Mobiluncus*, and Emended Description of the Genus *Mobiluncus*." *Syst. Appl. Microbiol.* 27 (2004): 72-83. PubMed: 15053324.
4. Schwebke, J. R. and L. F. Lawing "Prevalence of *Mobiluncus* spp. Among Women With and Without Bacterial Vaginosis as Detected by Polymerase Chain Reaction." *Sex. Transm. Dis.* 28 (2001): 195-199. PubMed: 11318249.
5. Hillier, S. L. "Diagnostic Microbiology of Bacterial Vaginosis." *Am. J. Obstet. Gynecol.* 169 (1993): 455-459. PubMed: 8357044.

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