Product Information Sheet for HM-1172

Megasphaera micronuciformis, Strain DNF00954

Catalog No. HM-1172

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Veillonellaceae, Megasphaera*
Species: *Megasphaera micronuciformis*
Strain: DNF00954
Original Source: *Megasphaera micronuciformis* (*M. micronuciformis*), strain DNF00954 was isolated on November 28, 2011, from vaginal fluid collected from a woman that tested positive for bacterial vaginosis in the USA.[1,2]
Comments: *M. micronuciformis,* strain DNF00954 (HMP ID 2138) 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. micronuciformis,* strain DNF00954 is currently being sequenced at the J. Craig Venter Institute.
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. micronuciformis is a strictly anaerobic, non-motile, non-spore-forming, Gram-negative coccus found in the oral and vaginal flora of humans.[3,4] Little is known of the pathogenic potential of *M. micronuciformis,* as clinical data are scarce for this organism.[5]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat medium supplemented with 10% glycerol.

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

Packaging/Storage:
HM-1172 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:
Modified Reinforced Clostridial broth or Modified Chopped Meat medium or equivalent
Tryptic Soy agar with 5% 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 1 to 7 days.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Megasphaera micronuciformis,* Strain DNF00954, HM-1172."

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.

Disclaimers:
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References:

1. Fredricks, D. N., Personal Communication.
2. HMP ID 2138 (*M. micronuciformis*, strain DNF00954)
3. Marchandin, H., et al. "Phylogenetic Analysis of Some Sporomusa Sub-branch Members Isolated from Human Clinical Specimens: Description of *Megasphaera micronuciformis* sp. nov." Int. J. Syst. Evol. Microbiol. 53 (2003): 547-553. PubMed: 12710625.
4. Murayama, R., et al. "Study of the Distribution of *Megasphaera micronuciformis* in Oral Cavities of the Japanese by Species-specific Polymerase Chain Reaction (PCR) Assay." Afr. J. Microbiol. Res. 7 (2013): 5546-5549.
5. Zozaya-Hinchliffe, M., D. H. Martin and M. J. Ferris. "Prevalence and Abundance of Uncultivated *Megasphaera*-Like Bacteria in the Human Vaginal Environment." Appl. Environ. Microbiol. 74 (2008): 1656-1659. PubMed: 18203860.