

Shuttleworthia sp., Strain MSX8B

Catalog No. HM-882

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Lachnospiraceae*, *Shuttleworthia*

Species: *Shuttleworthia* sp.

Strain: MSX8B

Original Source: *Shuttleworthia* sp., strain MSX8B is a human oral isolate.^{1,2}

Comments: *Shuttleworthia* sp., strain MSX8B ([HMP ID 1508](#)) 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 *Shuttleworthia* sp., strain MSX8B was sequenced at the [J. Craig Venter Institute](#) (GenBank: [JAQT000000000](#)).

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.

Shuttleworthia sp. are obligately anaerobic, non-motile, non-sporulating, Gram-positive short bacilli isolated from the human oral cavity. *Shuttleworthia* sp. are saccharolytic and show good growth in broth media, which is further stimulated in the presence of fermentable carbohydrates. The principal end products of glucose metabolism are acetate, butyrate and lactate.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-882 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 Chopped Meat broth or equivalent

Tryptic Soy agar with yeast extract or 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 to 4 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Shuttleworthia* sp., Strain MSX8B, HM-882."

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](#), 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Sizova, M. V., et al. "New Approaches for Isolation of Previously Uncultivated Oral Bacteria." Appl. Environ. Microbiol. 78 (2012): 194-203. PubMed: 22057871.
2. [HMP ID 1508](#) (*Shuttleworthia* sp., strain MSX8B)
3. Downes, J., et al. "*Shuttleworthia satelles* gen. nov., sp. nov., Isolated from the Human Oral Cavity." Int. J. Syst. Evol. Microbiol. 52 (2002): 1469-1475. PubMed: 12361248.

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