

Tissierellia bacterium, Strain S5-A11

Catalog No. HM-1096

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: unclassified Tissierellia, Tissierellia (previously classified as Clostridiales Family XI. Incertae Sedis)

Strain: S5-A11

Original Source: Tissierellia bacterium, strain S5-A11 was isolated in 2012 from a woman with bacterial vaginosis in Washington, USA.^{1,2}

Comments: Tissierellia bacterium, strain S5-A11 ([HMP ID 1633](#)) 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 Tissierellia bacterium, strain S5-A11 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [JRMZ01000000](#)).

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.

Tissierellia are mostly anaerobic, non-spore forming rods or cocci-shaped bacteria that are found in human and animal microbiota and environmental sources, with some species considered to be opportunistic pathogens.³⁻⁵ They have a Gram-positive cell wall, and may stain Gram-positive or Gram-variable.³ The class Tissierellia was first described in 2014, and the order and family have not yet been fully described.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Yeast Extract broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-1096 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 Yeast Extract broth 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 3 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: Tissierellia bacterium, Strain S5-A11, HM-1096.”

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., Personal Communication.
2. [HMP ID 1633](#) (*Tissierella* bacterium, strain S5-A11)
3. Alauzet, C., et al. "Multilocus Analysis Reveals Diversity in the Genus *Tissierella*: Description of *Tissierella carlieri* sp. nov. in the New Class *Tissierellia* classis nov." *Syst. Appl. Microbiol.* 37 (2014): 23-34. PubMed: 24268443.
4. Schweizer, M., et al. "Chronic Osteomyelitis Due to *Tissierella carlieri*: First Case." *Open Forum Infect. Dis.* 3 (2016): ofw012. PubMed: 26949715.
5. Seong, C. N., et al. "Taxonomic Hierarchy of the Phylum Firmicutes and Novel Firmicutes Species Originated from Various Environments in Korea." *J. Microbiol.* 56 (2018): 1-10. PubMed: 29299839.

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