Veillonella atypica, Strain CMW7756B

Catalog No. HM-1301

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Veillonellaceae, Veillonella*
Species: *Veillonella atypica*
Strain: CMW7756B
Original Source: *Veillonella atypica* (*V. atypica*), strain CMW7756B is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.[1,2]
Comments: *V. atypica*, strain CMW7756B (HMP ID 3233) 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 *V. atypica*, strain CMW7756B was sequenced at the Genome Institute at Washington University (GenBank: LRQT00000000).
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.

V. atypica is an anaerobic, non-motile, non-sporulating, Gram-negative cocci routinely isolated from the human oral cavity.[3] *V. atypica* can utilize, for its metabolic needs, end products like lactate that are excreted by other bacteria during carbohydrate fermentation.[3] *V. atypica* has limited ability to adhere to host tissue but is able to overcome this by coaggregating with other oral bacterial species like *Streptococcus*.[4,5] *Veillonella* are also dominant colonizers of the human gastrointestinal and respiratory tracts.[6]

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in NYC III broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-1301 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:
NYC III broth or equivalent
NYC III agar 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: *Veillonella atypica*, Strain CMW7756B, HM-1301."

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. 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. Lewis, A., Personal Communication.
2. HMP ID 3233 (*Veillonella atypica*, strain CMW7756B)
3. Rogosa, M. "The Genus *Veillonella* IV. Serological Groupings, and Genus and Species Emendations." J. Bacteriol. 90 (1965): 704-709. PubMed: 16562069.
4. Hughes, C. V., et al. "Coaggregation Properties of Human Oral *Veillonella* spp.: Relationship to Colonization Site and Oral Ecology." Appl. Environ. Microbiol. 54 (1988): 1957-1963. PubMed: 3178207.
5. Egland, P. G., R. J. Palmer Jr. and P. E. Kolenbrander. "Interspecies Communication in *Streptococcus gordonii-Veillonella atypica* Biofilms: Signaling in Flow Conditions Requires Juxtaposition." Proc. Natl. Acad. Sci. USA 30 (2004): 16917-16922. PubMed: 15546975.
6. van den Bogart, B., et al. "Diversity of Human Small Intestinal *Streptococcus* and *Veillonella* Populations." FEMS Microbiol. Ecol. 85 (2013): 376-388. PubMed: 23614882.

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