

***Varibaculum cambriense*, Strain AB12_3**

Catalog No. HM-1190

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Actinomycetaceae*, *Varibaculum*

Species: *Varibaculum cambriense*

Strain: AB12_3

Note: The strain designation, strain AB12 #3, on the vial label for lot 63980301 is incorrect. The correct strain designation is AB12_3.

Original Source: *Varibaculum cambriense* (*V. cambriense*), strain AB12_3 was isolated from human stool in Guelph, Ontario, Canada.¹

Comments: *V. cambriense*, strain AB12_3 ([HMP ID 2046](#)) 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. cambriense*, strain AB12_3 is currently being sequenced at the [Broad 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.

V. cambriense are anaerobic, non-motile, Gram-positive, catalase-negative bacteria and a potential pathogen in skin and soft tissue infections.^{2,3} *V. cambriense* has been isolated from intrauterine devices, human vagina and abscess specimens.⁴

Material Provided:

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

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

Packaging/Storage:

HM-1190 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 equivalent
Tryptic Soy agar with 5% defibrinated sheep blood, Columbia agar with 5% defibrinated sheep blood or Fastidious Anaerobe agar with 5% defibrinated sheep blood¹ 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 3 days

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Varibaculum cambriense*, Strain AB12_3, HM-1190."

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/bmb15/index.htm.

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References:

1. Allen-Vercoe, E., Personal Communication.
2. Hall V., et al. "Characterization of Some *Actinomyces*-Like Isolates from Human Clinical Sources: Description of *Varibaculum cambriense* gen. nov., sp. nov." J. Clin. Microbiol. 41 (2003): 640-644. PubMed: 12574260.
3. Chu, Y. W., et al. "*Varibaculum cambriense* Infections in Hong Kong, China, 2006." Emerg. Infect. Dis. 15 (2009): 1137-1139. PubMed: 19624944.
4. Brown, C. T., et al. "Genome Resolved Analysis of a Premature Infant Gut Microbiol Community Reveals a *Varibaculum cambriense* Genome and a Shift Towards Fermentation-Based Metabolism During the Third Week of Life." Microbiome 1 (2013): 30. PubMed: 24451181.

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