

Product Information Sheet for HM-298

Arcobacter butzleri, Strain JV22

Catalog No. HM-298

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Campylobacteraceae*, *Arcobacter*

Species: *Arcobacter butzleri*

Strain: JV22

Original Source: *Arcobacter butzleri* (*A. butzleri*), strain JV22 was isolated from a human gastrointestinal tract.¹

Comments: *A. butzleri*, strain JV22 ([HMP ID 9401](#)) 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 *A. butzleri*, strain JV22 was sequenced at the Human Genome Sequencing Center at the [Baylor College of Medicine](#) (GenBank: [AEPT00000000](#)).

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.

A. butzleri is an aerotolerant, Gram-negative, nonsporulating, motile, rod-shaped bacterium usually isolated from aqueous environments, a variety of food and animal sources, and the stools of humans and primates with diarrheal illness.^{2,3} Transmission probably occur through the consumption of contaminated food or water.⁴ In rare cases, it can cause severe, invasive infections.⁵

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Brucella broth with 0.15% agar and 1.5% sodium chloride supplemented with 10% glycerol.

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

Packaging/Storage:

HM-298 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:

Brucella broth with 0.15% agar and 1.5% sodium chloride ([ATCC medium 1147](#)) or equivalent

Tryptic Soy Agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 25°C to 30°C

Atmosphere: Microaerophilic (~ 80% N₂, 9% H₂, 9% CO₂ and 2% O₂)

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 25°C to 30°C for 72 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Arcobacter butzleri*, Strain JV22, HM-298."

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.

Disclaimers:

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References:

1. [HMP ID 9401](#) (*Arcobacter butzleri*, strain JV22)
2. Kiehlbauch, J. A., et al. "*Campylobacter butzleri* sp. nov. Isolated from Humans and Animals with Diarrheal Illness." *J. Clin. Microbiol.* 29 (1991): 376-385. PubMed: 2007646.
3. Vandamme, P., et al. "Polyphasic Taxonomic Study of the Emended Genus *Arcobacter* with *Arcobacter butzleri* comb. nov. and *Arcobacter skirrowii* sp. nov., an Aerotolerant Bacterium Isolated from Veterinary Specimens." *Int. J. Syst. Bacteriol.* 42 (1992): 344-356. PubMed: 1503968.
4. Miller, W. G., et al. "The Complete Genome Sequence and Analysis of the Epsilonproteobacterium *Arcobacter butzleri*." *PLoS One* 2 (2007): e1358. PubMed: 18159241.
5. Prouzet-Mauléon, V., et al. "*Arcobacter butzleri*: Underestimated Enteropathogen." *Emerg. Infect. Dis.* 12 (2006): 307-309. PubMed: 16494760.

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