

***Psychrobacter* sp., Strain 1501**

Catalog No. HM-332

For research use only. Not for human use.

Contributor:

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Product Description:

Bacteria Classification: *Moraxellaceae*, *Psychrobacter*

Species: *Psychrobacter* sp.

Strain: 1501

Original Source: *Psychrobacter* sp., strain 1501 was isolated from human blood in New York, U. S. A.¹

Comments: *Psychrobacter* sp., strain 1501 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 *Psychrobacter* sp., strain 1501 is currently being sequenced at the Human Genome Sequencing Center at the [Baylor College of Medicine](#).

Psychrobacter sp. are psychrotolerant, non-motile, Gram-negative, rod-shaped aerobes. They have been isolated from Antarctic ornithogenic soils, krill, sea ice and deep sea environments and are part of the normal flora of the thin slime layer that covers most fish. *Psychrobacter* isolates have also been obtained from various food sources, including poultry, fish and meat products. Little is known about *Psychrobacter* sp. in humans.^{2,3}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-332 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 Broth or equivalent

Tryptic Soy Agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

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 tubes and plate at 37°C for 48 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH as part of the Human Microbiome Project: *Psychrobacter* sp., Strain 1501, HM-332."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. [HMP 9373](#) (*Psychrobacter* sp., strain 1501)
2. Juni, E. and G. A. Heym. "*Psychrobacter immobilis* gen. nov., sp. nov.: Genospecies Composed of Gram-Negative, Aerobic, Oxidase-Positive Coccobacilli." *Int. J. Syst. Bacteriol.* 36 (1986): 388-391.
3. Bozal, N., et al. "Characterization of Several *Psychrobacter* Strains Isolated from Antarctic Environments and Description of *Psychrobacter luti* sp. nov. and *Psychrobacter fozii* sp. nov." *Int. J. Syst. Evol. Microbiol.* 53 (2003): 1093-1100. PubMed: 12892132.

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