

***Candida parapsilosis*, Strain CAB50-2638**

**Catalog No. HM-1121**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Classification: *Saccharomycetaceae*, *Candida*

Species: *Candida parapsilosis*

Strain: CAB50-2638

Original Source: *Candida parapsilosis* (*C. parapsilosis*), strain CAB50-2638 was isolated in February 2012 from human blood in St. Louis, Missouri, USA.<sup>1,2</sup>

Comments: *C. parapsilosis*, strain CAB50-2638 ([HMP ID 9330](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora.

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.

Five species of *Candida* make up greater than 90 percent of candidemia cases, *Candida albicans*, *C. parapsilosis*, *C. krusei*, *C. glabrata* and *C. tropicalis*.<sup>3</sup> The non-*Candida albicans* *Candida* (NCAC) species are becoming increasingly common nosocomial infections. The frequency of the different NCAC varies greatly with geographic location. *C. parapsilosis* is the NCAC most isolated from hands, and is common on indwelling medical devices, where it is present as a biofilm.<sup>4</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of yeast cells in 20% glycerol.

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

**Packaging/Storage:**

HM-1121 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:

Emmons Modified Sabouraud broth or equivalent  
Emmons Modified Sabouraud agar or equivalent

Incubation:

Temperature: 25°C to 30°C

Atmosphere: Aerobic

Propagation:

1. Keep vial frozen until ready for use; thaw rapidly in a waterbath at 25°C to 30°C. Typically, this takes less than 5 minutes.
2. Immediately after thawing, inoculate an agar plate with approximately 40 µL of thawed culture and/or transfer the entire thawed aliquot into a single tube of broth.
3. Incubate the plate and/or tube at 25°C to 30°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: *Candida parapsilosis*, Strain CAB50-2638, HM-1121."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Burnham, C.-A. D., Personal Communication.
2. [HMP ID 9330](#) (*C. parapsilosis*, strain CAB50-2638)
3. Guinea, J. "Global Trends in the Distribution of Candida Species Causing Candidemia." *Clin. Microbiol. Infect.* 20 (2014): 5-10. PubMed: 24506442.
4. Silva, S., et al. "*Candida glabrata*, *Candida parapsilosis* and *Candida tropicalis*: Biology, Epidemiology, Pathogenicity and Antifungal Resistance." *FEMS Microbiol. Rev.* 2012 (36): 288-305. PubMed: 21569057.

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