Candida albicans, Strain 22F

Catalog No. NR-29349

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

<u>Classification</u>: Mitosporic Saccharomycetales; Candida <u>Species</u>: Candida albicans <u>Strain/Isolate</u>: 22F <u>Original Source</u>: Candida albicans (C. albicans), strain 22F is a human isolate collected in China.¹

C. albicans is a eukaryotic, pathogenic obligate aerobe that is responsible for the majority of forms of candidiasis and is responsible for superficial as well as life-threatening systemic infections. It is commonly isolated from the environment and can be a component of the microbial floras of the human oral cavity, gastrointestinal tract or vagina. Several features of C. albicans contribute to its virulence. These include the secretion of hydrolytic enzymes, the ability to adhere to host cells and tissues, phenotypic switching (a phenomenon that involves changing several growth and morphological characteristics at the same time) and morphological dimorphism (growth can be yeast-like or mycelial). С albicans is generally diploid and exhibits considerable natural heterozygosity.²⁻⁴ The whole genome sequence for the diploid form of *C. albicans*, strain SC5314 has been completed (GenBank: <u>AACQ00000000; CandidaDB</u>).^{5,6}

Material Provided:

Each vial of NR-29349 contains approximately 0.4 mL of yeast culture in 20% glycerol.

Packaging/Storage:

NR-29349 was packaged aseptically in cryovials and is provided frozen on dry ice. The product should be stored at -60°C or colder. For long term storage the product should be stored at cryogenic temperature (-130°C or colder), preferably in the vapor phase of a liquid nitrogen freezer.

Growth Conditions:

Media: Yeast Mold broth or equivalent Yeast Mold agar or equivalent Incubation: Temperature: 25°C to 30°C Atmosphere: Aerobic

Propagation:

- 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.
- 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: *Candida albicans*, Strain 22F, NR-29349."

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. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 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, K., Personal Communication.
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