

Product Information Sheet for NR-29444

Candida albicans, Strain 12C

Catalog No. NR-29444

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Classification: Mitosporic Saccharomycetales; Candida

Species: Candida albicans

Strain/Isolate: 12C

Original Source: Candida albicans (C. albicans), strain 12C is an oral isolate from a vaginitis patient collected in Ann Arbor, Michigan. USA. between 1990 and 1992. 1.2

<u>Comment</u>: Strain 12C is a member of genetic clade I and has an <u>a/a MTL</u> genotype.²

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 phenomena that involves changing several growth and morphological characteristics at the same time) and morphological dimorphism (growth can be yeast-like or mycelial). C. albicans is generally diploid and exhibits considerable natural heterozygosity.3,4,5,6,7,8

Material Provided:

Each vial contains approximately 0.5 mL of yeast culture in 10% glycerol. Each vial of lot 60282429 contains approximately 0.5 mL of yeast culture in 20% glycerol.

Packaging/Storage:

NR-29444 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:

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 50 µL of thawed culture and/or transfer the entire thawed aliquot into a single tube of broth.
- 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 12C, NR-29444."

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.

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

References:

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