**Candida albicans, Strain 24C**

**Catalog No. NR-29345**

For research use only. Not for human use.

**Contributor:**
Kim Lewis, Professor, Northeastern University, Boston, Massachusetts, USA

**Manufacturer:**
BEI Resources

**Product Description:**
Classification: Mitosporic Saccharomyces; Candida
Species: Candida albicans
Strain/Isolate: 24C
Original Source: Candida albicans (C. albicans), strain 24C is a human isolate collected in China.

*C. albicans* is an 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). *C. albicans* is generally diploid and exhibits considerable natural heterozygosity. The whole genome sequence for the diploid form of *C. albicans*, strain SC5314 has been completed (GenBank: AACQ00000000; CandidaDB).

**Material Provided:**
Each vial of NR-29345 contains approximately 0.4 mL of yeast culture in 20% glycerol.

**Packaging/Storage:**
NR-29345 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:**
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: Candida albicans, Strain 24C, NR-29345."

**Biosafety Level:** 1

**Disclaimers:**
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals...
contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:
1. Lewis, K., Personal Communication.

ATCC® is a trademark of the American Type Culture Collection.