**Candida albicans**, Strain 22K

**Catalog No. NR-29361**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

**Classification:** Mitosporic Saccharomycetales; Candida

**Species:** Candida albicans

**Strain/Isolate:** 22K

**Original Source:** Candida albicans (C. albicans), strain 22K is a human isolate collected in China.¹

*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 diploid and exhibits considerable natural heterozygosity.²³ The whole genome sequence for the diploid form of *C. albicans*, strain SC5314 has been completed (GenBank: AACQ00000000; CandidaDB).²⁶

**Material Provided:**
Each vial of NR-29361 contains approximately 0.4 mL of yeast culture in 20% glycerol.

**Packaging/Storage:**
NR-29361 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 22K, NR-29361."

**Biosafety Level:** 1


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Page 1 of 2

NR-29361, 14JUL2014
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References:
1. Lewis, K., Personal Communication

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