**Product Information Sheet for HM-1122**

**Candida krusei, Strain CAB39-6420**

**Catalog No. HM-1122**

For research use only. Not for human use.

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

**Product Description:**
Classification: **Saccharomycetaceae, Candida**
Species: *Candida krusei* (also referred to as *Pichia kudriavzevii*, *Issatchenkia orientalis* and *Candida glycerinogenes*).
Strain: CAB39-6420 (The strain designation on the vial label is incorrect. The correct strain designation is CAB39-6420.)

**Original Source:** *Candida krusei* (C. krusei), strain CAB39-6420 was isolated in February 2012 from human blood in St. Louis, Missouri, USA.

**Comments:** C. krusei, strain CAB39-6420 (HMP ID 1558; as *Pichia kudriavzevii*) 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*.1 The non-*Candida albicans* *Candida* (NCAC) species are becoming increasingly common nosocomial infections, with frequency of the different NCAC varying greatly by geographic location. *C. krusei* is intrinsically resistant to fluconazole and is often isolated in hematologic/oncology patients.2,3 Fluconazole resistance in *C. krusei* is thought to be caused by an unusually low affinity to fluconazole by its ergosterol synthesis enzyme Erg11 and constitutively expressed drug efflux pumps Abcl and AbcII.1

**Material Provided:**
Each vial contains approximately 0.5 mL of yeast culture in 20% glycerol.

**Packaging/Storage:**
HM-1122 was packaged aseptically in cryovials and is provided frozen on dry ice. The product should be stored at -70°C or colder. For long term storage the product should be stored -130°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

**Growth Conditions:**
**Media:**
Yeast Mold broth or Emmons Modified Sabouraud broth or equivalent
Yeast Mold agar or 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 krusei*, Strain CAB39-6420, HM-1122."

**Biosafety Level: 1**

**Disclaimers:**
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References:
3. HMP ID 1558 (C. krusei, strain CAB39-6420)

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