**Cryptococcus neoformans, Isolate 5**

**Catalog No. NR-41295**

For research use only. Not for human use.

**Contributor:**
Qiang Qiang Zhang, Professor, Huashan Hospital, Fudan University, Shanghai, China

**Manufacturer:**
BEI Resources

**Product Description:**
Classified as **Filobasidiaceae**, **Cryptococcus**
Species: **Cryptococcus neoformans**
Isolate: 5
Original Source: **Cryptococcus neoformans (C. neoformans)**, isolate 5, was obtained from human cerebrospinal fluid in China in February 2012.1

The Cryptococcus species complex is currently composed of two species, **C. neoformans** and **C. gattii**. These species are best recognized as the agents of cryptococcosis, an AIDS-defining illness.2,3 **C. neoformans** is divided into two varieties, **C. neoformans var. grubii** (serotype A) and **C. neoformans var neoformans** (serotype D).4 In the current classification scheme, there are five distinct lineages, referred to as VNI, VNII, VNB, VNIII and VIV.2,3 The two varieties (neoformans and grubii) are able to recombine and produce diploid or aneuploid intervarietal AD hybrids.5 **C. neoformans** has been widely associated with avian excreta.2

**Material Provided:**
Each vial of NR-41295 contains approximately 0.4 mL of yeast culture in 20% glycerol.

**Packaging/Storage:**
NR-41295 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, cryogenic temperature (-130°C or colder), preferably in the vapor phase of a liquid nitrogen freezer, is recommended.

**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 transfer the entire thawed aliquot into a single tube of broth.
  3. Incubate the plate 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: Cryptococcus neoformans, Isolate 5, NR-41295.”

**Biosafety Level:** 2


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