

Aspergillus fumigatus*, Isolate 1*Catalog No. NR-41311****For research use only. Not for human use.****Contributor:**

Qiang Qiang Zhang, Professor, Huashan Hospital, Fudan University, Shanghai, China

Manufacturer:

BEI Resources

Product Description:

Classification: *Aspergillaceae*, *Aspergillus*

Species: *Aspergillus fumigatus*

Isolate: 1

Original Source: *Aspergillus fumigatus* (*A. fumigatus*), isolate 1, was obtained from human sputum.¹

A. fumigatus is a saprophytic fungus commonly found in the soil.² Inhalation of conidia by immunocompetent individuals rarely has any adverse effect, since the conidia are eliminated relatively efficiently by innate immune mechanisms. However, due to the increase in the number of immunosuppressed individuals and the degree of severity of modern immunosuppressive therapies, *A. fumigatus* has become a prevalent airborne fungal pathogen, causing severe and often fatal invasive infections in immunocompromised hosts.²

Material Provided:

Each vial of NR-41311 contains approximately 0.4 mL of *A. fumigatus* in Yeast Mold broth with 20% glycerol.

Packaging/Storage:

NR-41311 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 Sabouraud broth or equivalent

Yeast Mold agar or 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 water bath at 25°C to 30°C.
2. Immediately after thawing, inoculate an agar plate with approximately 40 µL of thawed culture or transfer the entire thawed aliquot into a single tube of broth.

3. Incubate the plate or tube at 25°C for 2 to 7 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Aspergillus fumigatus*, Isolate 1, NR-41311."

Biosafety Level: 2

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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References:

1. Zhang, Q. Q., Personal Communication.

- Latge, J-P. "Aspergillus fumigatus and Aspergillosis." Clin. Microbiol. Rev. 12 (1999): 310-350. PubMed: 10194462.

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