

Aspergillus fumigatus, Isolate 1

Catalog No. NR-41311

For research use only. Not for use in humans.

Contributor:

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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 0.5 mL of *A. fumigatus* spores and mycelia in 20% glycerol.

Packaging/Storage:

NR-41311 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

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 50 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 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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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References:

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

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

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