

***Aspergillus fumigatus*, Strain B5859**

**Catalog No. NR-35304**

**For research use only. Not for human use.**

**Contributor:**

Arun Balajee, Ph.D., Mycotic Diseases Branch, Centers for Disease Control and Prevention, Atlanta, Georgia, USA and Stephanie Mounaud, Laboratory Manager, J. Craig Venter Institute, Rockville, Maryland, USA

**Manufacturer:**

BEI Resources

**Product Description:**

Classification: *Aspergillaceae, Aspergillus*

Species: *Aspergillus fumigatus*

Strain: B5859

Original Source: *Aspergillus fumigatus* (*A. fumigatus*), strain B5859, was obtained in 1998 from human sputum-tracheal suction in California, USA.<sup>1</sup>

*A. fumigatus* is a saprophytic fungus commonly found in the soil.<sup>2</sup> 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.<sup>2</sup>

**Material Provided:**

Each vial of NR-35304 contains approximately 0.5 mL of *A. fumigatus* spores and mycelia in 20% glycerol.

**Packaging/Storage:**

NR-35304 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 Modified Sabouraud Dextrose broth or equivalent

Yeast Mold agar or Modified Sabouraud Dextrose 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*, Strain B5859, NR-35304."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

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

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