

## *Sporothrix globosa*, Isolate 6

Catalog No. NR-41307

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

### Contributor:

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### Manufacturer:

BEI Resources

### Product Description:

Classification: *Ophiostomataceae*, *Sporothrix*

Species: *Sporothrix globosa* (This item was deposited as *Sporothrix schenckii* but was reclassified as *Sporothrix globosa*).<sup>1,2</sup>

Isolate: 6

Original Source: *Sporothrix globosa* (*S. globosa*), isolate 6 was obtained from human skin tissue in China in February 2012.<sup>2</sup>

The fungal genus *Sporothrix* includes about sixty species, with global distribution.<sup>3,4</sup> *S. globosa* is an ascomycetous dimorphic organism, which is one of the species of *Sporothrix* responsible for the subcutaneous mycosis sporotrichosis.<sup>5,6</sup> *S. globosa* is moderately virulent compared to other species within the *S. schenckii* complex. The *S. schenckii* complex is composed of the following species: *S. albicans*, *S. brasiliensis*, *S. globosa*, *S. luriei*, *S. mexicana* and *S. schenckii*.<sup>7,8</sup>

### Material Provided:

Each vial of NR-41307 contains 0.5 mL of mycelial plugs in Emmons' Modified Sabouraud agar and Potato Dextrose agar in 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

### Packaging/Storage:

NR-41307 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 Nutrient broth or equivalent

Yeast Mold agar or Nutrient 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. Typically, this takes less than 5 minutes.
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 to 30°C for 2 to 4 days.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Sporothrix globosa*, Isolate 6, NR-41307."

### 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:**

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3. Teixeira, M. M., et al. "Comparative Genomics of the Major Fungal Agents of Human and Animal Sporotrichosis: *Sporothrix schenckii* and *Sporothrix brasiliensis*." BMC Genomics 15 (2014): 943. PubMed: 25351875.
4. De Oliveira, M. M., et al. "Rapid Identification of *Sporothrix* Species by T3B Fingerprinting." J. Clin. Microbiol. 50 (2012): 2159-2162. PubMed: 22403427.
5. Oliveira, M. M., et al. "Molecular Identification of the *Sporothrix schenckii* Complex." Rev. Iberoam Micol. 31 (2014): 2-6. PubMed: 24270070.
6. Oliveira, M. M., et al. "Molecular Identification of *Sporothrix* Species Involved in the First Familial Outbreak of Sporotrichosis in the State of Espírito Santo, Southeastern Brazil." Mem. Inst. Oswaldo Cruz 108 (2013): 936-938. PubMed: 24141957.
7. Fernandes, G. F., et al. "Characterization of Virulence Profile, Protein Secretion and Immunogenicity of Different *Sporothrix schenckii sensu stricto* Isolates Compared with *Sporothrix globosa* and *Sporothrix brasiliensis* Species." Virulence 4 (2013): 241-249. PubMed: 23324498.
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