

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-44361**

# Sporothrix schenckii, Strain 4526

# Catalog No. NR-44361

# For research use only. Not for human use.

#### **Contributor:**

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

Classification: Ophiostomataceae, Sporothrix

Species: Sporothrix schenckii<sup>1,2</sup> (Note: Species identification

based on beta-tubulin gene sequence.)

Strain: 4526

Original Source: Sporothrix schenckii (S. schenckii), strain 4526 was isolated by M. B. de Albornoz in 1977 from a lymphocutaneous lesion of an adult female with sporotrichosis in Venezuela.<sup>3,4</sup>

<u>Comment</u>: Prior to deposition to BEI Resources, S. schenckii, strain 4526 was maintained by successive subculture since its isolation.

The fungal genus *Sporothrix* includes about sixty species, with global distribution.<sup>5,6</sup> *S. globosa* is an ascomycetous dimorphic organism, which is one of the species of *Sporothrix* responsible for the subcutaneous mycosis sporotrichosis.<sup>7,8</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>9-11</sup>

### **Material Provided:**

Each vial of NR-44361 contains approximately 0.5 mL of spores and mycelia and yeast cells in 10% glycerol.

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

# Packaging/Storage:

NR-44361 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:

- 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 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 schenckii*, Strain 4526, NR-44361."

## 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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license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

- Marimon, R., et al. "Sporothrix basiliensis, S. globosa, and S. mexicana, Three New Sporothrix Species of Clinical Interest." J. Clin. Microbiol. 45 (2007): 3198-3206. PubMed: 17687013.
- 2. Alvarado, P., Personal Communication.
- Mendoza, M.. et al. "Production of Culture Filtrates of Sporothrix schenckii in Diverse Culture Media." <u>Medical</u> <u>Mycology</u> 40 (2002): 447-454. PubMed: 12462523.
- Mendoza, M., et al. "Physiological Comportment and in vitro Sensitivity of Sporothrix schenckii Isolates Maintained for 18 Years by Two Preservation Methods."
  <u>Rev. Iberoam. Micol.</u> 22 (2005): 151-156. PubMed: 16308350.
- Mendoza, M., et al. "Technical Evaluation of Nested PCR for the Diagnosis of Experimental Sporotrichosis." <u>Rev.</u> <u>Iberoam. Micol.</u> 29 (2012): L120-125. PubMed: 22037113.
- Teixeira, M. M., et al. "Comparative Genomics of the Major Fungal Agents of Human and Animal Sporotrichosis: Sporothrix schenckii and Sporothrix brasiliensis." <u>BMC Genomics</u> 15 (2014): 943. PubMed: 25351875.
- De Oliveira, M. M., et al. "Rapid Identification of Sporothrix Species by T3B Fingerprinting." <u>J. Clin.</u> <u>Microbiol.</u> 50 (2012): 2159-2162. PubMed: 22403427.
- Oliveira, M. M., et al. "Molecular Identification of the Sporothrix schenckii Complex." <u>Rev. Iberoam. Micol.</u> 31 (2014): 2-6. PubMed: 24270070.
- Oliveira, M. M., et al. "Molecular Identification of Sporothrix Species Involved in the First Familial Outbreak of Sporotrichosis in the State of Espirito Santo, Southeastern Brazil." Mem. Inst. Oswaldo Cruz 108 (2013): 936-938. PubMed: 24141957.
- 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." <u>Virulence</u> 4 (2013): 241-249. PubMed: 23324498.
- López-Romero, E., et al. "Sporothrix schenckii Complex and Sporotrichosis, an Emerging Health Problem." <u>Future Microbiol.</u> 6 (2011): 85-102. PubMed: 21162638.

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