**Product Sheet**

**Talaromyces varians**  
(ATCC® 10509™)

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**Storage Temp.**

- Frozen: -80°C or colder
- Freeze-Dried: 2°C to 8°C

**Live Culture: See Propagation Section**

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**Biosafety Level**

1

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**Strain Designation:** NRRL 2096 [CBS 386.48, G. Smith LSHB BB91, IFO 6112, IMI 40586, NCTC 4152, QM 7691]

**Deposited Name:** Penicillium varians Smith

**Product Description:** An ampoule containing viable cells (may include spores and mycelia) suspended in cryoprotectant.

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**Recommended Procedure**

For freeze-dry (lyophilized) ampoules:

1. Open an ampoule according to enclosed instructions.
2. From a single test tube of sterile distilled water (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a sterile pipette and apply directly to the pellet. Stir to form a suspension.
3. Aseptically transfer the suspension back into the test tube of sterile distilled water.
4. Let the test tube sit at room temperature (25°C) undisturbed for at least 2 hours; longer (e.g., overnight) rehydration might increase viability of some fungi.
5. Mix the suspension well.
6. From a single test tube of sterile distilled water, withdraw approximately 0.5 to 1.0 mL with a sterile pipette and apply directly to the pellet. Stir to form a suspension.
7. Incubate the inoculum at the propagation conditions recommended.
8. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 3-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Growth Conditions**

**Temperature:** 24°C to 26°C

**Atmosphere:** Typical aerobic

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**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner:

Talaromyces varians (ATCC® 10509™)

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**DNA Sequence**

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence:

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GAGGGACTCGCGGGCGTTGGTCACCACCACCATCTTTTTACGGTTGACCTCGGATCAGGTAGGAGTTAC
ACCTGCCCCAAAGGCAGCGGCGACGCCTGTTGGGTCCTCGAGCGCATGGGGCTTTGTCACTCGCTCGGG
GGCATGCCTGTCCGAGCGTCATTTCTGCCCTCAAGCGCGGCTTGTGTGTTGGGTGTGGTCCCCCCGGGG
TCAAAACTTTCAACAATGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTA
GCCTGCGCCTGCCAGAGCACCCCCTGAACTCTGAAGAAGATAGGGCTGTCTGAGTACCTAGAAAATTG
TTTTAAACCTGTGTTCTCAGAGCGCCACACTCGGTGCTCGCAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG
GAGCAACCAAGCAAGTAATCAGTCTGCTTGAGGCCGCCACACCCCGCTTGGATTGAGGGAGTTGAGGG
ACTGCGGACACCCGAGGAAGCTGTTGCTCGGACACCGGAGGGAAGCTGTTGCTCGGACACCGGAGGGAAGCTG
ACTGCGGACACCCGAGGAAGCTGTTGCTCGGACACCGGAGGGAAGCTGTTGCTCGGACACCGGAGGGAAGCTG
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**Notes**

Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.
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**Isoalation**

**Cotton yarn, England**

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**References**

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

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**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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