**Product Sheet**

**Yarrowia lipolytica** (ATCC® 9773™)

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### Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Yarrowia lipolytica* (ATCC® 9773™)

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### Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

**ATCC® Medium 200:** YM agar or YM broth

**ATCC® Medium 28:** Emmons' modification of Sabouraud's agar

**ATCC® Medium 1245:** YEPD

### Growth Conditions

**Temperature:** 24°C to 26°C

**Atmosphere:** Typical aerobic

### 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. Use several drops (or make dilutions if desired) to inoculate recommended solid or liquid medium. Include a control that receives no inoculum.
6. Incubate the inoculum at the propagation conditions recommended.
7. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

### Colony and Cell Morphology:

After 3 days on YM agar at 25°C, colonies are white, raised, wrinkled and dull. Cells are ovoid to cylindrical, pseudohyphae abundant and well-differentiated.

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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 26S ribosomal RNA gene, partial sequence

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GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTATTGATTTTATCTATTTCTGTGGATTTCTATTCTATTA
CAGCGTCATTTTATCTCAATTATAACTATCAACAACGGATCTCTTGGCTCTCACATCGATGAAGAACGC
AGCGAACCGCGATTTTGTGACTTGCAGATGTGAATCATCAATCTTTGAACGCACATTGCGCGGTA
TGGCATTCCGTACCGCACGGATGGAGGAGCGTGTTCCCTCTGGGATCGCATTGCTTTCTTGAAATGGGAT
TTTTTTAAACTCTCAATTATTACGTCATTTCACCTCCTTCATCCGAGATTACCCGCTGAACTTAAGCATAT
CAATAA
```

D1D2 region of the 26S ribosomal RNA gene

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ATATCATAATAGCGGAGGAAAGAAACCAACAGGGATTGCTCTGACTAAACGCGAGTGAAACCGCAGAA
AGCTCAAAATTTGAAACCCCCCCTGGGATTTTAGAATGGATGGATTGATGGAAAAGCTACACCCGATTG
CGTGGAAATATGACTACATAGGGTGAGAACCCCGCTCGCTGACTACCGCTTCTGATATGCTTATAC
AAAGTGCGCTTTGGATGATGGAGTCAAGGTTAACCTCCTAACCTACACGTTACCTAAGCTAAACTCGTG
GAGAGACCAGTACGGAAACAACGACATGTGGAGAAAGCTTAATGAAAAGGAGAGTGAAC
TAGATTTGGAATATGTGATAGGGAAGAAAAGTGAGATGGAGATGGAGTCGGCGGAGGTTTCGACCAGCGCCTCGG
GGGGGCGTCTACTGCGACACCGCAGTGCAGATGCGAGACGGGGTTAATGAGGGAGCGCCCTCGG
GCGTCTCCCCCTACACCCACCAGCAGCATATACCATCCACACCATC
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**Storage Temp.**

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

**Live Culture:** See Propagation Section

**Biosafety Level:** 1

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American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org
800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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**Description**

**Strain Designation:** 251 [CBS 2072, IFO 1742, KCM-0232]

**Deposited Name:** Mycoderma lipolytica

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

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**ATCC® Medium 200:** YM agar or YM broth

**ATCC® Medium 28:** Emmons' modification of Sabouraud's agar

**ATCC® Medium 1245:** YEPD

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**Growth Conditions**

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**Atmosphere:** Typical aerobic

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**Recommended Procedure**

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**Colony and Cell Morphology:** After 3 days on YM agar at 25°C, colonies are white, raised, wrinkled and dull. Cells are ovoid to cylindrical, pseudohyphae abundant and well-differentiated.

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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 26S ribosomal RNA gene, partial sequence

```
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTATTGATTTTATCTATTTCTGTGGATTTCTATTCTATTA
CAGCGTCATTTTATCTCAATTATAACTATCAACAACGGATCTCTTGGCTCTCACATCGATGAAGAACGC
AGCGAACCGCGATTTTGTGACTTGCAGATGTGAATCATCAATCTTTGAACGCACATTGCGCGGTA
TGGCATTCCGTACCGCACGGATGGAGGAGCGTGTTCCCTCTGGGATCGCATTGCTTTCTTGAAATGGGAT
TTTTTTAAACTCTCAATTATTACGTCATTTCACCTCCTTCATCCGAGATTACCCGCTGAACCTAATACAT
CAATAA
```

D1D2 region of the 26S ribosomal RNA gene

```
ATATCATAATAGCGGAGGAAAGAAACCAACAGGGATTGCTCTGACTAAACGCGAGTGAAACCGCAGAA
AGCTCAAAATTTGAAACCCCCCCTGGGATTTTAGAATGGATGGATTGATGGAAAAGCTACACCCGATTG
CGTGGAAATATGACTACATAGGGTGAGAACCCCGCTCGCTGACTACCGCTTCTGATATGCTTATAC
AAAGTGCGCTTTGGATGATGGAGTCAAGGTTAACCTCCTAACCTACACGTTACCTAAGCTAAACTCGTG
GAGAGACCAGTACGGAAACAACGACATGTGGAGAAAGCTTAATGAAAAGGAGAGTGAAC
TAGATTTGGAATATGTGATAGGGAAGAAAAGTGAGATGGAGATGGAGTCGGCGGAGGTTTCGACCAGCGCCTCGG
GGGGGCGTCTACTGCGACACCGCAGTGCAGATGCGAGACGGGGTTAATGAGGGAGCGCCCTCGG
GCGTCTCCCCCTACACCCACCAGCAGCATATACCATCCACACCATC
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**Notes**

No special notes.

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

References and other information relating to this product are available online at www.atcc.org.

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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Additional information on this culture is available on the ATCC web site at www.atcc.org.