**Product Sheet**

**Rhizopus oryzae** (ATCC® 56536™)

**Description**

**Strain Designation:** CBS 112.07 [NRRL 3133, VKM F-1414]

**Deposited Name:** Rhizopus oryzae Went et Prinsen Geerligs

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

**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 323:** Malt agar medium

**ATCC® Medium 336:** Potato dextrose agar (PDA)

**Growth Conditions**

**Temperature:** 24°C to 26°C

**Atmosphere:** Typical aerobic

**Recommended Procedure**

For freeze-dry (lyophilized) ampoules:

1. Open the 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 2-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Notes**

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

**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

**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: Rhizopus oryzae (ATCC® 56536™)

**Storage Temp.**

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

**Live Culture:** See Propagation Section

**Biosafety Level**

1

**Colony and Cell Morphology:**

After 5 days at 25°C sporangiophores smooth or slightly rough; brown in color. Sporangia globose or subglobose; spinous; black at maturity. Columellae globose, or subglobose; smooth; pale brown. Sporangiospores elliptical, globose or polygonal; striated; 5-8 µm in length. Chlamydospores abundant; globose elliptical, lemon-shaped or cylindrical. Rhizoids abundant.

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AGAACTTTGAAAAGAGAGTTAAACAGTATGTGAAATTGTTAAAAGGGAACCGTTTGGAGCCAGACTG
GCTTGTCTGTAATCAATCTAGGCTTCGGCCTGGATGCACTTGCAGGCTATGCCAACGACAATTTG
ACTTGAGGGAAAAACTAGGGGAAATGTGGCCCACTTGTGGGTGTTATAGTCCCTTAGAAATACCTT
GGGGTTGGATTGAGGAACGCAGCGAATGCTTATTGGCGAGTTTTCCAGGAAGGTTTTCTGAGGTACTAC
GGTATCAAGGTTGATCTTTTTGGTTATACTTCTATTCGCTTAGGTTGTTGGCTTAATGACTCTAAATGA

Postmortem lung issue of 24-year-old man with acute lymphoblastic leukemia, the Netherlands

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

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.

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