Rhizopus oligosporus
(ATCC® 22959™)

Please read this FIRST

Storage Temp.  
Frozen: -80°C or colder  
Freeze-Dried: 2°C to 8°C  
Live Culture: See Propagation Section

Biosafety Level 1

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 oligosporus (ATCC® 22959™)

Notes

No special notes.

Additional, updated information on this product may be 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

AGCCGGACCGATAAGTCCTTTGGAACAGGGCATCATAGAGGGTGAGAATCCCGTCTTCGGTCTGAGCATATATCAATAAGCGGAGGAAAAGAAAATAACAATGATTTCCTTAGTAACGGCGAGTGAACAGGAAAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAAATAACAATGATTTCCTTAGTAACGGCGAGTGAACAGGAAAA

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 2–3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology:

After 7 days on PDA at 25°C, colonies white, cottony, reverse uncolored. Sporangia branched, heads globose, columellae subglobose or short-pyriform. Sporangiospores hyaline to light gray, surface ornamentation not observed.

Growth Conditions

Temperature: 24°C to 26°C  
Atmosphere: Typical aerobic

Recommended Procedures

Medium 324: Malt extract agar  
Medium 335: Potato carrot agar  
Medium 336: Potato dextrose agar (PDA)

Strain Designation: NRRL 2710 [CBS 338.62, IFO 8631, IMI 174457, Scholer M 140]

Deposited Name: Rhizopus oligosporus (ATCC® 22959™)

ATCC® Medium 324: Malt extract agar  
ATCC® Medium 335: Potato carrot agar  
ATCC® Medium 336: Potato dextrose agar (PDA)

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.
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References

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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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org.

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

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