



Product Sheet

Mucor racemosus (ATCC® 204008™)

Please read this **FIRST**



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: *Mucor racemosus* (ATCC® 204008™)

American Type Culture Collection
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Manassas, VA 20108 USA
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Or contact your local distributor

Description

Deposited Name: *Mucor racemosus* Fresenius, teleomorph

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 336: Potato dextrose agar (PDA)

Growth Conditions

Temperature: 24°C

Recommended Procedure

Frozen ampoules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a **25–30 °C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer at least 50 µL (or 2-3 agar cubes) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 4-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: After 5 days on Potato dextrose medium at 25°C, colony is low, powdery, dark grey; reverse uncolored. Sporangia are grey, ovoid, columellate, stipes pigmented. Sporangiospores are grey, smooth-walled, irregularly shaped.

Notes

The DNA sequence data for ITS and RPB1 indicate that ATCC 204008 does not likely belong to the species *Mucor racemosus*; further characterization is necessary for its accurate identification.

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.
AGGATCATTAAATAATCAATAATTTGGCTTGCCATCATTATCTATTTACTGTGAAGTGTATTACTT
GACGCTTGAGGGATGTTCCAGTGCTATAAGGATAGGCATTGGAATGTTAACCAGATCATAATCAAGC
TTAGGCTTGGTATCCTATTATTATTTACCAAAAAGAAATCAGAATTAATATTGAACATAGACGTA
ATCTATAAAACAACCTTTAACAACGGATCTCTTGGTTCTCGCATCGATGAAGAACGTAGCAAAGTGCG
ATAACTAGTGTGAATTGCATATTCAGTGAATCATCGAGTCTTTGAACGCAACTTGGCCTCATTGGTATTC
CAATGAGCACGCCTGTTTCAGTATCAAAAACAACCCCTCTATCCAACATTTGTTGAATAGGATGACTGAG
AGTCTCTTGATCTTTTGATCTCGAACCTCTTGAAATGTACAAAGGCTGATCTTTTAAAAGCCTGAAC
TTTTTTTAAATAAAGAGAAGCTCTTGCGGTAAACTGTGCTGGGGCCTCCCAAATAACACATCTTTAA
ATTTGATCTGAAATCAGGTGGGATTACCCGCTGAACTTAAG

RNA polymerase II largest subunit (RPB1) gene, partial cds.

ATTGGCTAAACCCCTGTCTATCATATTGGTAAGTGTGATGATATACTATATAGATGATGACATGAAGCTC
ATGTGCTTGTCTGATGTTTCTTGACAAAAGTAAAAAGATCCTTGAATGTGTTTGTTCATTGTTCCA
AGCTCAAAGTCGATGAAGTATGTATCTACCATTGAAAATAGCGTGTGTTTATACTATTATGCCTCTAG
ACAAATCCTCGTTTCGAAAGAGCAAAGAAAATTACCGACTCAAAGCTAAACTGCGTGACGATGGG
ACCTCGCCAAAGCCAAGATGACTTGTGAAGGCAGTGACGAAGCTGAAGGTGGTTTAGAAGAAAAGG
AAGAGTTTGACAATGGCAAGCGCAAGAGTACACACGGCGGCTGCGGCTACAAACAACCTCTCATTGC



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CAAGGATGGCTTGA AATTGTACGCTCAGTTTCGTGCTAGTCCAGGAGATGTAAGTAGTGGTTGAGAGT
TTTTATGGTATTCATCGAGTTAACAGACAACCACATTAGGACTCTGGCAATGAAGGAAGACAACAGCTG
ACTGCTGCCAAAGTACTGCAAATCCTCAAGAACATTTCTGACAAGGATATTCGTGATATGGGCTTATCT
GAAGAGTTTGCTCGCCCTGAATGGATGATTACAACCTGCTTACCTGTGCCTCCACCTCAAGTGCGTCCCT
CTATTCAAATGGATGGTACCAGTCGCGGTGAAGATGATTTGACTCACAAATTTGCTGACGTTCTCAAGG
CAAATGGCAATGTAAGCGTTGTGAATCAGAAGGTGCTCCCGTACACGTTGTTCAAGAATTTGAGCAG
CTCTTGCAAGTTTGTAAATATTGAATGGATTGATTGATCCGATTTTTTTATTAATACATATGCAACACA
CAGTCCATATTGC



soil from mound of termites, *Odontotermes* sp., Mahale Mountains National Park, Tanzania



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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