An ampoule containing mycelia-medium cubes suspended in cryoprotectant. To thaw a frozen ampoule, place in a 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 50 µL (or 2 to 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 4 to 5 days at 20°C on Potato dextrose medium, vegetative hyphae are delicate, aseptate, smooth, slightly wavy and moderately branched. Primary zoospores are produced in a single row within zoosporangium and encysting in a cluster at the top of the zoosporangium. Secondary zoospores are reniform, laterally biflagellate.

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.

This strain may require a primary growth period in a nutrient broth containing trace amount of biotin and thiamine (ATCC® medium 2232™) before it will grow on any subculture attempts. Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

Strain Designation: NJM 0719
Product Description: An ampoule containing mycelia-medium cubes suspended in cryoprotectant.

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°C to 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 50 µL (or 2 to 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 4 to 5 days at 20°C on Potato dextrose medium, vegetative hyphae are delicate, aseptate, smooth, slightly wavy and moderately branched. Primary zoospores are produced in a single row within zoosporangium and encysting in a cluster at the top of the zoosporangium. Secondary zoospores are reniform, laterally biflagellate.

Notes

Type strain of the species.
Animal pathogen.
This strain may require a primary growth period in a nutrient broth containing trace amount of biotin and thiamine (ATCC® medium 2232™) before it will grow on any subculture attempts. 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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Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Aphanomyces sinensis* (ATCC® MYA-4825™)

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