**Phytophthora infestans (ATCC® 64095™)**

**Description**

**Strain Designation:** 550  
**Deposited Name:** Phytophthora infestans (Montagne) de Bary  
**Product Description:** An ampoule containing viable cells (yeast cells, spores, or agar cubes with 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 a growth of the culture in their own way.

- ATCC® Medium 322: Lima bean agar  
- ATCC® Medium 343: V8 juice agar  
- ATCC® Medium 1970: V8 vye agar

**Growth Conditions**

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

**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 circumstances 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 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 recommended temperature and conditions recommended. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 4-6 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Notes**

Mating type A2; keep moist during incubation; this strain may require a primary growth period in a nutrient broth containing trace amounts of biotin and thiamine (ATCC medium 2232) before it will grow on any subculture attempt.

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 26S ribosomal RNA gene, partial sequence.

**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Phytophthora infestans (ATCC® 64095™)

**Intended Use**

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

**Product Sheet**

**Phytophthora infestans (ATCC® 64095™)**

Please read this FIRST

**Storage Temp.**

- Frozen: 0°C or colder
- Freeze-Dried: 2°C to 8°C

**Live Culture:** See Propagation Section

**Biosafety Level**

1

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GTGGGCGCTTGGGGCAAGTTCCTTGGAAGAGGACAGCATGGAGGGTGATACTCCCGTTCATCCCTGAG
TTGCTCGTGCGTACGATCCGTTTTCTTTGAGTCGCGTTGTTTGGGAATGCAGCGCAAATAGGTGGTAA
ATTCCATCTAAAGCTAAATATTGGTGCGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAA
AGAACTTTGAAAAGAGAGTTAAAGAGTACCTGAAACTGCTGAAAGGGAACCGAATCGTTTCCAGTGT
CTATAATCCGTGGTATATTTCATTGGCGAGTGTGTGCGTGCGTGTTGCTGTGGCAGCGGCTTTTTTGGCTG
CGCTCGGCGTGTGTGCTGTGTGTGCTTGCTGGTGCCCTGTGCTGCGGTGGGACGTCAAGGTCAGTTCGT
ATGCTGCGGGAAATGGCCGCCGAGGAGGTAGGGCTTACGCTTGCGTTTGTCTGTTATATCTTGGTGGAC
GAGTAGTCGGCGITGGGACTGAGTGCTCCTACACACGTGTTTTTGAATGGGCGCTTGCTGTCGCGCC
GTGCTGCGGATAGCTGCTATGCGTGTGTGGTTGTGTGTGGATTGATGTGGGTTTTAACTTGTTGCCGTTC
GGGACGTTGACGAAATGGAGCGATTTGAC

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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Disclaimers

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

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