**Description**

**Strain Designation:** P991 [CBS 535.92]

**Deposited Name:** *Phytophthora nicotianae* Breda de Haan

**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 343: V8 juice agar**

**Growth Conditions**

**Temperature:** 24.0°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 5-6 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Notes**

mating type A1; keep moist during incubation; 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.

**DNA Sequence**

No DNA sequencing was performed in house on this product.

**Isolation**

soil under citrus trees, California

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

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