



Product Sheet

Halophytophthora *kandeliae* (ATCC® 66501™)

Please read this **FIRST**

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

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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: *Halophytophthora kandeliae* (ATCC® 66501™)

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

Description

Strain Designation: T0928-5V [IFO 32620]

Deposited Name: *Halophytophthora kandeliae* Ho et al.

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 the growth of a culture in their own way.

ATCC® Medium 343: V8 juice 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 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 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. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 6-10 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On V8 medium at 25°C after 14 days, mycelium white, cottony, forming a rosette pattern out from the plug, moderately dense. Hyphae hyaline, guttulate. Sporangia hyaline, subglobose to oblong, smooth.

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
TTGTTTGGACACGTTGGGCTTCGTTGGCGGCTCCCTTGTGGTTGTCGTCGGCTTGAGGCTATCAGATGG
CTTTGTTGCTTGGTTGGTTGATTGGTTGATTGGTTGCTCCGTCATCGGTCGTTCTCGAACGAGTGCTAAA
GCGGTCTTTTGTAAACCCATTGTGATATTGAACTGATTGACTGTGGGGACGAAAGTCTCTGCTTTGA
ACTAGATAGCAACTTTCAGCAGTGGATGTCTAGGCTCGCACATCGATGAAGAACGCTGCGAACTGCCA
TACGTAATGCGAATTGCAGGATTCAGTGAGTCATCGAAATTTTGAACGCATATTGCACTTTCCGGTTTT
GCCTGGAAGTATGTCTGTATCAGTGTCCGTAGACTAACTTGCCCTTCTTGCCTGCTGTAGTCGTCGGTT
GGAAAGACGAGATGTGAGGTGTTTGCCTGCTGCATGGCTTGGCTCCGGTCGGGTCTGTTTGTTTTG
CGCAAGTCCCTTTAAAGTCGGACGTGTTTCTCTGTGTGGTGCCTGACGGATCTGTGGACGTGCGTG
CGTGCGGGACGACAATGTTGTGCGCGGACGAGTCTGCGGCTTTTGGTCTGCACTGTTGGGATTCTC
CGATTGGCGGTATGTTTGGCTCGGCTTTGACAATGCAGCTTATTGGGTGTTTCTCTGCGCGGCTTGTGC
TGTATGAAGACGAACCGGATGGTCTGTGTGTGCGTGTGTGTCTGTGCGTTCCGTTTCGTTTCCGAAG
AGCCGTTTGTATGCGTGTGCATGCATGGAGCGTGGTATATTGGGAAGTTGTGCTGGTGTGCGCTTCC
GGTCGGTGTGA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAACTAACAGGATCCCTAGTAACGGCGAGTGAAGCGGGAAG
AGCTCAAGCTTAAAATCTCTGTGCAAGTTTTGCGCGGCGAATTGTAGTCTATGGACCGTAATCAGTGC
GGCTGTTGGGGCGAAGTTCCTTGAAGAGGACAGCATGGAGGGTGATACTCCCGTTTCATGCCCTTGA
CGTTGCACGTACGATTCGTTGGTCTTTGAGTCGCGTTGTTGGGAATGCAGCGCAAAGCAGGTGGTAAAT
TCCATCTAAAGCTAAATATTGGTGCAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAA
GAACTTTGAAGAGAGTTAAAGAGTACCTGAAACTGCTGAAAGGGAACCGGTTCCGTTGCCAGTGTCT
TGTAATCGTCGGCATATTTTCATTGCTGTGCGGGAGTGTGTCGCGGTTGGCAGTAGTTTGTCTGCGCCT




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CGCGTGTTCGTTGGCTCGTGTCTCGGCGGTGCCCTGTGTCCGCGTGTGACGTCAGAGTGAGTTCGTATGGT
GCGGGAATGGCGGTCTAGGAGGTAGGTGAGGAGCTTGTCTTTGGCTGTTATATCTGGGCATGCTAGTT
GTCGTGGCTGGGACTGAGGTGCGTACAACGTGCTTTGGAGTGTGGTGCCTCTGTGTGCGTGCCTG
TTGGATAGCTTGTATGCAGTGTGCGTTGCGTGCGGATGGTGTGCTTGGTAACCTCTTGCCGTTCCGGA
CTTTGACGAAATGGCGCGATCCGA
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Isolation

Kandelia candel leaves submerged in seawater, Tungshiao, Taiwan.



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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