



Product Sheet

# *Serendipita indica* (ATCC® 204458™)

Please read this **FIRST**



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

---



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: *Serendipita indica* (ATCC® 204458™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** END1 [DSM 11827]

**Deposited Name:** *Piriformospora indica* Verma 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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 336: Potato dextrose agar (PDA)

ATCC® Medium 337: Potato, dextrose, yeast agar (PDY)

## Growth Conditions

**Temperature:** 30°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.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 5-7 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Genome sequencing strain (Institute of Bioinformatics and Systems Biology, Helmholtz Zentrum München, Neuherberg, Germany); a biotrophic symbiont that colonizes the root cortex cells of a broad range of plant species.

Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://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 28S ribosomal RNA gene, partial sequence  
AAGGATCATTAAACGAATTCGATTCGGTCTTCTGTGCTGGTGGCAACACATGTGCACGTCGATCGTAAT  
TCCATCCTCCTTCAATTGTCCAAGTGCCTCGGTCGGCCTCTGGGTCGAAGAAGCGTGGCTGCCAGGC  
TCGTTTCGTTCTGAATGCACATTGGTTATTTACCCACTCTGGTACTAGAAACAAAGAAATATTCATAT  
AACTATACAACTTTCAACAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGACGCGAAATGCGAT  
AAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACCTTGACCCCTTTGGTATTC  
CGAAGGTACGCCGTTTGTGAGTGTCTGTACTCTCAATCCTACAATTTTTGTTGACGGATTGGACTTG  
GGTCTGTTCGCTCTGCAACTGATCCGAAATGTATCAGCGTGTGTCGGTCTGACGATGAACCGATTG  
TTAAGTTTCATCGGGCTCGCTTTGTGCGAGGTCGTCTGACGAAATGCATGCCTAACCCCTCTATACTTTGA  
CAATTCGACCTCAAATCGGGTGGGATCACCCGCTGAACTTAA

D1D2 region of the 28S ribosomal RNA gene  
ATATCAATAAGCGGAGGAAAAGAACTAACAAGGATCCCCTAGTAACGGCGAGTGAAGAGGGAAA  
AGCTCAAATTTTGAATCTGGCGCTTTGGCTCCCGAGTTGTAATCTAGAGAAGTGTCTCCGCATCGGA  
CCGTGTACAAGTTCCCTGGAACGGGACGTCATAGAGGGTGAAGATCCCCTACATGCCACGGACTACCT  
TTGCTCTGTGATCACTCTCAACGAGTCGAGTTGTTGGGAATGCAGCTCAAATGGGTGGTAAATTC  
ATCTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAGCA



Product Sheet

# *Serendipita indica* (ATCC® 204458™)

Please read this **FIRST**



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

---



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: *Serendipita indica* (ATCC® 204458™)

```
CTTTGAAAGAGAGTGAACAGTACGTGAAATTGTTGAAAGGGAAGCGTTTGGAGTCAGTCGCGTCT
GGCGGGATTCAGCCTTGCTTCTGCTTGGTGTATTTCTGTCCGACGGGTCAGTGTGCGATTTCGACTGAGG
GAAAAAGGCTTGGGAATGTGGCCATCTTCGGGTGGTGTATAGCCCTTGTGTATGTCTCAGTTGGG
ATCGAGGTCAGCAGCGCGCCTTTTGGCCGGGTTTCGCGCCCTCGGTACGCGCTTAGGACACTGGCATA
ATGGCTTTAAGCGA
```

## Isolation

Arbuscular mycorrhizal spores in the rhizosphere soils of *Prosopis juliflora* and *Zizyphus nummularia*, Thar desert, Western India, India.

## References

References and other information relating to this product are available online at [www.atcc.org](http://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.

## ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate. This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials. Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
© ATCC 2017. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [08/24]

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor