




Product Sheet


# *Rhizobium radiobacter* (ATCC® 33970™)

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: *Rhizobium radiobacter* (ATCC® 33970™)

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

**Designation:** C58 [CIP 104333]

**Deposited Name:** *Agrobacterium tumefaciens* (Smith and Townsend) Conn

## Propagation

### Medium

ATCC® Medium 18: Trypticase Soy Agar/Broth

### Growth Conditions

**Temperature:** 30°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #18 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #18 agar slant and/or plate.
5. Incubate the tubes and plate at 30°C for 48 hours.

## Notes

Strain has two colony types that have been individually characterized and found to be biochemically identical. The two colony types at 24 hours are smooth, glistening and have entire edges. However, the colony types changes in morphology at 48 hours. At 48 hours the colony types are (a) large, circular, coarse, whitish and opaque; and (b) small, circular, less dense than colony type a and translucent.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## 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.

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## Disclaimers

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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).  
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