



Product Sheet

***Propionibacterium  
freudenreichii subsp.  
shermanii* (ATCC®  
13673™)**

Please read this **FIRST**



**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: *Propionibacterium freudenreichii subsp. shermanii* (ATCC® 13673™)

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:** 33 [VPI 0409]  
**Deposited Name:** *Propionibacterium shermanii* van Niel

**Propagation**

**Medium**

ATCC® Medium 1053: Reinforced Clostridial medium (Oxoid CM149)

**Growth Conditions**

**Temperature:** 30°C  
**Atmosphere:** Anaerobic

**Propagation Procedure**

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 ml of the recommended broth from a single tube (5 to 6 ml) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth tube. A slant may be inoculated with 0.1 ml of the cell suspension. Also, streak several blood agar plates to check for colonial morphology and purity.
4. Incubate tubes and one blood plate under anaerobic conditions at 30°C. Incubate second agar plate aerobically at 30°C for aerobic contamination check.
5. Within 48 to 72 hours, growth is evident by a slightly turbid broth with smooth sediment. Colonies on the anaerobic blood agar plate are pinpoint, circular, entire, glistening, and transparent. No growth occurs on the blood agar plates incubated aerobically.

**ANAEROBIC CONDITIONS:**

- Anaerobic conditions for transfer may be obtained by either of the following:
- Use of an anaerobic gas chamber, or
  - Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Tomato juice broth and Tomato juice agar (ATCC Medium #33, shown below) were historically used in the food industry to propagate this species and may be used if desired. ATCC Medium #44, Brain Heart Infusion (Difco 0037) and Brain Heart Infusion Agar (Difco 0418) may also be used to propagate this strain.

ATCC Culture Medium #33: Tomato Juice Agar

For broth, omit the agar.

Tryptone (Difco 0123), 10.0 g  
Yeast extract, 10.0 g  
Filtered tomato juice (pH 7.0), 200.0 ml  
Agar, 11.0 g  
Adjust pH to 7.2.  
Autoclave at 121°C for 15 min.

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.

**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

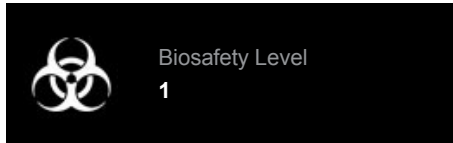


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ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive 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.

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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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