



# *Thauera butanivorans* Dubbels et al. ex Takahashi et al.

43655™

## Description

Type strain.

**Strain designation:** IAM 12574 [BuB-1211, DSM 2080]

**Deposited As:** *Pseudomonas butanovora* Takahashi

**Type strain:** Yes

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Medium:**

ATCC Medium 1581: Mineral Salts with n-Butane

ATCC Medium 44: Brain Heart Infusion Agar/Broth

**Temperature:** 30°C**Atmosphere:** 7% N-butane, 5% CO<sub>2</sub>, 88% Air

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## Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #1581 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.

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4. Use several drops of the suspension to inoculate a second tube of broth, a #1581 or #44 slant, and/or a #1581 or #44 plate.
  5. Place tubes and plate in an anaerobe jar and pull the vacuum to 3.6 Hg (0.12 Atm.). Add n-butane to 1.5 Hg (0.07 Atm). Add CO<sub>2</sub> to fill (0.05 Atm) with 88% air.
  6. Incubate at 30°C for 96 hours.
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## Notes

\*This strain grows on routine media but should be kept on the recommended medium and atmosphere to retain the ability to assimilate butane.

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thauera butanivorans* Dubbels et al. ex Takahashi et al. (ATCC 43655)

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## References

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

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