ATCC

Product Sheet

Thauera butanivorans (ATCC® 43655™)

Please read this FIRST

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: *Thauera butanivorans* (ATCC® 43655™)

Shipping Information

Distributed: freeze-dried

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: IAM 12574 [BuB-1211, DSM 2080]
Deposited Name: *Pseudomonas butanovora* Takahashi

Propagation

Growth Conditions
Temperature: 30.0°C
Atmosphere: 7% n-butane, 5% CO_2, 88% air

Propagation Procedure
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.
4. Use several drops of the suspension to inoculate a second tube of broth, a slant, and/or 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_2 to fill (0.05 Atm) with 88% air.
6. Incubate at 30°C for 96 hours.

Notes

On #1581 plates colonies are small and mucoid with a fried-egg appearance. ***This strain grows on routine media but should be kept on the recommended medium and atmosphere to retain the ability to assimilate butane.** On Brain Heart Infusion Agar (BD 241830) colonies are smooth, entire, glistening, and mucoid, with a spreading margin.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

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.

ATCC Warranty

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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

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