



Product Sheet

# *Pseudomonas aeruginosa* (ATCC® 10145™)

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  
**2**

## 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: *Pseudomonas aeruginosa* (ATCC® 10145™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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## Description

**Designation:** [CCEB 481, MDB strain BU 277, NCIB 8295, NCPPB 1965, NCTC 10332, NRRL B-771, R. Hugh 815]

**Deposited Name:** *Pseudomonas aeruginosa* (Schroeter) Migula

**Product Description:** Type strain. Positive control for molecular detection in bioaerosols. Quality control strain for API and Sensititre products. Used in bacterial resistance testing of adhesives and paint.

## Propagation

### Medium

ATCC® Medium 3: Nutrient agar or nutrient broth

### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. From a single tube of #3 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette and use to rehydrate the entire pellet.
3. Aseptically transfer the rehydrated pellet back into the broth tube. Mix well.
4. Use several drops of this suspension to inoculate an additional broth tube, a #3 agar slant and/or a plate.
5. Incubate the tubes and plate at 37°C for 24 hours.

## Notes

This strain produces two types of diffusible pigment that may mask each other:

1. Fluorescein: diffusible, green or yellow-green in color, and exhibits fluorescence with short-wave UV light (254 nm). Production is enhanced by growth in an iron-deficient medium.
2. Pyocyanine: diffusible, blue, a chloroform-soluble pigment characteristic of *Pseudomonas aeruginosa*. Incubate in the dark as broad-spectrum light may inactivate this pigment.

The basic requirements for pigment production are not well known, and thus color production by the pseudomonads has been an erratic property that may be lost with repeated subculturing. However, this strain has remained stable.

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: 2

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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## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.



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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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