



# 13005

## 13005™

### Description

**Strain designation:** 2617-28-82

**Deposited As:** *Escherichia coli* (Migula) Castellani and Chalmers

**Type strain:** No

**Patent depository:** This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

**Patent number:**

2,975,105

**Technical information:** ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

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### Storage Conditions

**Product format:** Freeze-dried

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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

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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 3: Nutrient agar or nutrient broth

**Temperature:** 37°C

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## Handling Procedures

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1. Open vial according to enclosed instructions.
  2. Using 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. Rehydrate 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. Incubate all tubes and plate at 37°C for 24 hours.
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### Notes

A single colony should be picked from the 24 hour plate and a light suspension made in a minimal broth (*see below*). From this, transfer one drop to a second minimal broth and another drop to a minimal broth plus L-threonine. A third tube containing Nutrient Broth should also be inoculated to act as a growth control. After 24 hours incubation, no growth should occur on the minimal medium without the additive, but turbidity should be seen in the tube containing the L-threonine and the Nutrient Broth. These auxotrophs readily mutate to prototrophs, so care should be taken to keep the requirement intact. Avoid repeated transfers.

A typical minimal medium used at the ATCC is M9, but any minimal medium may be used. The formula is as follows:

M9 Salts (X10) (*see below*), 100 ml

20% Glucose, 20 ml

0.1M MgSO<sub>4</sub>, 10 ml

0.01M CaCl<sub>2</sub>, 10 ml

Sterile water to 1 L

*Autoclave each solution separately (15 lb. for 15 min.). Mix all components aseptically just before use.*

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*M9 Salts (X10 concentrate):*

*Na<sub>2</sub>HPO<sub>4</sub> anhydrous, 60 g*

*KH<sub>2</sub>PO<sub>4</sub> anhydrous, 30 g*

*NaCl, 5 g*

*NH<sub>4</sub>Cl, 10 g*

*Water to 1 L*

*Dissolve in order indicated. Dispense into 100 ml bottles. Autoclave at 15 lb. for 15 min.*

*Supplements are added at the following concentrations:*

*Amino acids, 20 mg/ml*

*Vitamins, 1 mg/ml*

*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: 13005 (ATCC 13005)

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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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