



# ***Vermistella antarctica*** **Moran and Anderson**

**PRA-216™**

## **Description**

**Strain designation:** S-241

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Frozen

**Storage conditions:** -80°C or colder for 1 week, vapor phase of liquid nitrogen for long-term storage

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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 1525: Seawater 802 medium

ATCC Medium 1405: HESNW medium

**Instructions for complete medium:** ATCC® Medium 1525 inoculated with *Klebsiella pneumoniae* subsp. *pneumoniae* (ATCC® 700831™) or *Enterobacter aerogenes* (ATCC® 13048™); this media may be diluted with ATCC

**Temperature:** 4°C

**Incubation:** Grown with *Enterobacter aerogenes*(ATCC® 13048™) as food source

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## Handling Procedures

### Storage and Culture Initiation

Frozen ampules packed in dry ice should either be thawed immediately or stored in

liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampule, place it in a 35°C water bath such that the lip of the ampule remains above the water line. Thawing time is approximately 2 to 3 minutes. Do not agitate the ampule. Do not leave ampule in water bath after it is thawed.
2. Add the thawed contents to a T-25 flask containing 10 mL of ATCC medium 1525 bacterized with *Klebsiella pneumoniae* subsp. *pneumoniae* (ATCC® 700831™) or *Enterobacter aerogenes* (ATCC® 13048™).
3. Add one sterile wheat grain to the flask.
4. Incubate with the cap tightly sealed at 4°C.

**Culture maintenance:** Subculture every two weeks to a fresh T-25 flask of bacterized medium in the following manner:

1. Scrape the flask bottom using a sterile cell scraper, and aseptically transfer 0.5 mL from a growing culture to a T-25 tissue culture flask containing 10.0 mL of ATCC medium 1525 bacterized with *Klebsiella pneumoniae* subsp. *pneumoniae* (ATCC® 700831™) or *Enterobacter aerogenes* (ATCC® 13048™).
2. Incubate with the cap tightly sealed at 4°C.
3. If the bacterial level of the culture is such that the organism is difficult to discern, it may be diluted to a ratio of 1:3 [1525 (bacterized):1405] as described in step 4.
4. Aspirate all media, as the amoebae will be adherent to the plastic (do not aspirate the wheat grain). For a T-25 flask, add 6 mL ATCC Medium 1405 and 3 mL ATCC Medium 1525 bacterized with *Klebsiella pneumoniae* subsp. *pneumoniae* (ATCC® 700831™) or *Enterobacter aerogenes* (ATCC® 13048™). Incubate at 4°C with the cap tightly closed.

**Reagents for cryopreservation:** br /> Cryoprotective Solution

DMSO, 2.0 mL

Fresh growth medium w/o bacteria, 8.0 mL

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the

following manner: *Vermistella antarctica* Moran and Anderson (ATCC PRA-216)

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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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## Revision

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## Contact Information

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