ATCC

Product Sheet

# *Dexiostoma campyla* (ATCC® 50414™)

**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: *Dexiostoma campyla* (ATCC® 50414™)

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

**Strain Designation:** UK33b
**Deposited Name:** *Dexiostoma campyla* (Stokes) Jankowski
**Depositor:** EM Simon
**Isolation:**
River Cam at King's College, Cambridge, England, 1990

## Propagation

**Growth Conditions**
**Temperature:** 25.0°C
Duration: axenic
**Protocol:** ATCCNO: 50402 SPEC: Loosen cap and aseptically transfer 0.25 ml of culture to fresh medium (16 x 125 mm screw-capped test tube containing 5 ml of ATCC medium 1034 [available from ATCC as item 327-X]). Place both tubes with caps loosened one full turn in an upright position in a 25C incubator. Aseptically transfer every 2 weeks.

**Medium**
ATCC® Medium 1034: Modified PYNFH medium (Available from ATCC as ATCC cat. no. 327-X)

**Instructions for Complete Medium**
ATCC Medium 1034
(ATCC medium 1034 is available in a freeze-dried format from ATCC; contact sales for details).

## Cryopreservation

1. Harvest cells from a culture at or near peak growth by centrifugation at 300 x g for 2 min.
2. Adjust concentration of cells to 2 x $10^6$/ml in fresh medium.
3. While cells are centrifuging, prepare a 13% (v/v) solution of sterile DMSO in fresh medium.

a) Add 1.3 ml of DMSO to an ice cold 20 x 150 mm screw-capped test tube;
b) Place the tube on ice and allow the DMSO to solidify (~5 min) and then add 8.7 ml of ice cold medium;
c) Invert several times to dissolve the DMSO;
d) Allow to warm to room temperature.

4. Add a volume of the DMSO solution equal to the cell suspension volume but add in 3 equal aliquots at 2 min intervals. Thus, the final concentration of the preparation will equal 6.5% (v/v) DMSO and $10^6$ cells /ml.
5. Dispense in 0.5 ml aliquots into 1.0 - 2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation).
6. Place the vials in a controlled rate freezing unit. Use the following cooling cycle: From room temperature cool at -10°C/min to the heat of fusion; from the heat of fusion to -40°C, cool at -1°C/min. At -40°C plunge into liquid nitrogen. The cooling cycle should be initiated no less than 15 and no more than 30 minutes after the addition of DMSO to the cell preparation.
7. Store in the vapor or liquid phase of a nitrogen refrigerator.
8. To establish a culture from the frozen state, aseptically add 0.5 ml of sterile modified PYNFH medium (ATCC Medium 1034) containing 8% (w/v) sucrose to the frozen ampule. Immediately, place in a 35°C water bath, until thawed. Immerse the ampule just sufficient to cover the frozen material. Do not agitate the ampule.
9. Immediately after thawing, aseptically remove the contents of the ampule and gently add the material to the edge of a 20 x 100 mm petri plate containing ATCC Medium 919 (non-nutrient agar) and position on a 15 degree slant. The cell suspension will pool at the edge of the plate.
10. Continue to double the volume of the cell suspension at 10 minute intervals by adding ATCC medium 1034 containing 4% sucrose (w/v). When the volume reaches 16.0 ml place the plate in a horizontal position and incubate at 25°C.
11. On the following day, gently remove the cell suspension for the plate and transfer to a T-25 tissue culture flask. Note the volume of the suspension and add a volume of fresh medium without sucrose equal to the volume of the cell suspension. Incubate the culture at 25°C.
12. After culture has been established subculture into fresh

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medium without sucrose.

## 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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## 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

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

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