



# *Sarcocystis falcatula* Stiles

50701™

## Description

**Strain designation:** Sfi

**Deposited As:** *Sarcocystis falcatula* Stiles

**Type strain:** No

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## Storage Conditions

**Product format:** Frozen

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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 722: Minimum essential medium (MEM)

**Instructions for complete medium:** ATCC<sup>®</sup> 30-2003 [Eagle's Minimum Essential Medium (EMEM) with 2 mM L-glutamine, 4.5 g/L glucose, and 1.0 mM sodium pyruvate]

**Temperature:** 37°C

**Incubation:** Grows in bovine turbinate cells ATCC CRL-1390

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## Handling Procedures

### Cryopreservation:

1. Harvest the culture by gently agitating the contents of each flask. Transfer all but approximately 1 ml of the culture medium to 15 ml plastic centrifuge tubes.

Detach the remaining tissue culture cells (infected and uninfected) by scraping the surface of the flask with a cell scraper. Pass the resulting cell suspension through a syringe equipped with a 27 gauge 1/2 in needle and pool this suspension with the culture fluid.

2. Spin the cell suspensions at approximately 50 x g for 3 min, to remove the cellular debris.
3. Transfer the spore suspensions (supernatants) to new 15 ml plastic centrifuge tubes. Centrifuge at 1300 x g for 10 min.
4. Pool the spore pellets and adjust the concentration to  $2.0 - 4.0 \times 10^7$  cells/ml with a fresh solution of Hank's Balanced Salt Solution.

\*If the concentration is too low centrifuge at 1300 x g for 10 min and resuspend in the volume of Hank's Balanced Salt Solution required to yield the desired concentration.

5. Mix the spore preparation and 20% (v/v) DMSO in equal portions. The final concentration will be  $1.0 - 2.0 \times 10^7$  cells/ml and 10% DMSO. The time from mixing of the cell preparation and cryoprotective solution to the beginning of the freezing process should be no less than 15 min. and no more than 30 min.
6. Dispense in 0.5 ml aliquots to 1.0-2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation).
7. Place the vials in a controlled rate freezing unit. From room temperature cool at  $-1^\circ\text{C}/\text{min}$  to  $-40^\circ\text{C}$ . If the freezing unit can compensate for the heat of fusion, maintain rate at  $-1^\circ\text{C}/\text{min}$  through the heat of fusion. At  $-40^\circ\text{C}$  plunge into liquid nitrogen. Alternatively, place the vials in a Nalgene  $1^\circ\text{C}$  freezing apparatus. Place the apparatus at  $-80^\circ\text{C}$  for 1.5 to 2 hours and then plunge ampules into liquid nitrogen. (The cooling rate in this apparatus is approximately  $-1^\circ\text{C}/\text{min}$ .)
8. Store in either the vapor or liquid phase of a nitrogen refrigerator.
9. To thaw a frozen ampule, place it in a  $35^\circ\text{C}$  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 thawed.

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10. Immediately after thawing, aseptically transfer contents to a T-25 tissue culture flask containing a fresh monolayer of ATCC CRL-1390 cells and 10 ml ATCC 30-2003 with 3% (v/v) HIFBS.
  11. Outgas the flask for 10 seconds with a 95% air, 5% CO<sub>2</sub> gas mixture.
  12. Incubate in a 35°C CO<sub>2</sub> incubator with the caps screwed on tightly.
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## **Notes**

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

While every effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

ATCC recommends that individuals contemplating commercial use of any culture first contact the originating investigator to negotiate an agreement. Third party distribution of this culture is discouraged, since this practice has resulted in the unintentional spreading of contaminated cultures.

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## **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Sarcocystis falcatula* Stiles (ATCC 50701)

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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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