



Product Sheet

## *Campylobacter fetus* subsp. *fetus* (ATCC® 27374™)

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: *Campylobacter fetus* subsp. *fetus* (ATCC® 27374™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
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Or contact your local distributor

### Description

**Designation:** [NCTC 10842]

**Deposited Name:** *Campylobacter fetus* subsp. *fetus* (Smith and Taylor) Veron and Chatelain

**Product Description:** Type strain

### Propagation

#### Medium

ATCC® Medium 1115: Brucella albimi broth

ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

#### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** Microaerophilic, 3-5% O<sub>2</sub>-10% CO<sub>2</sub>

#### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #1115 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #260 slant, and/or plate.
5. Or, to obtain a biphasic culture, add 0.5 mL of the suspension to a #260 agar slant (see notes).
6. Incubate tubes and plate at 37°C, under microaerophilic conditions for 48 hours. Use an anaerobe jar with an active catalyst and a microaerophilic gas generator pack, or other acceptable method. Incubate slant with cap loose.

### Notes

Colonies on #260 agar appear small, entire, circular, glistening, smooth and low convex. Cells are motile, spiral rods arranged in singles and pairs.

This is an organism that requires moist conditions for best growth. A biphasic culture gives the most rapid growth. Growth at the broth/agar interface of the biphasic slant should occur within one to two days, but little turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy. Motility is best observed in young cultures.

Once good growth is present, these organisms tend to lose viability, especially if exposed to air for lengthy periods. The older cells may form spheroid bodies. The cells do not Gram stain well using traditional procedures. To obtain the best results, use a basic fuchsin counterstain in place of the safranin.

This item can also be grown in Thioglycollate medium (#177), which maybe incubated aerobically.

Storage at liquid nitrogen temperatures, with 10% sterile glycerol as the cryoprotectant, is recommended for long-term preservation.

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.

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effective for this product. 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 product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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

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