Designation: [NCTC 10842]
Deposited Name: Campylobacter fetus subsp. fetus (Smith and Taylor) Veron and Chatelain
Product Description: Type strain

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$_2$ -10% CO$_2$

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.

References
References and other information relating to this product are available online at www.atcc.org.
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