



Product Sheet

Campylobacter concisus (ATCC® 51562™)

Please read this FIRST



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 concisus* (ATCC® 51562™)

Description

Designation: CCUG 20700 [29556M, LMG 8262]
Deposited Name: *Campylobacter concisus* Tanner et al.

Propagation

Medium

ATCC® Medium 1645: Trypticase soy agar with 5% defibrinated sheep blood, formate and fumarate

Growth Conditions

Temperature: 37.0°C
Atmosphere: Anaerobic

Propagation Procedure

1. Add formate/fumarate supplement to all media to be used, as described above.
2. Let the vial thaw at room temperature under a gentle stream of oxygen free gas.
3. Under anaerobic conditions transfer the contents of the vial to a single tube of #1540 broth. Additional broths can be inoculated using 0.2 ml of this cell suspension per tube. A slant and a pre-reduced blood plate may also be inoculated with 0.1 ml each of the cell suspension. An aerobic blood plate may also be streaked to check for purity.
4. Incubate the broth tubes, slants, and plates at 37°C under anaerobic conditions. You may use an anaerobe jar with catalyst and gas generator pack or other suitable means of producing anaerobic conditions. Be sure caps are loose to facilitate gas exchange. Incubate aerobic blood plate aerobically at 37°C.
5. Initially, 3 to 7 days of incubation are required before visible growth is evident. A slight turbidity is seen in the broth and small, clear, circular, convex, entire, smooth colonies on the anaerobic blood agar plates. No growth should be seen on the aerobic plate.

Notes

To observe growth, examine a wet mount of the broth under phase microscopy. The organism is a small, short, curved to longer spiral, Gram negative rod with a rapid darting motility. Motility is best observed in young cultures.

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.

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

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

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.

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.

ATCC Warranty

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product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be 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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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

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