Campylobacter concisus Tanner et al.

51562™

Description

Strain designation: CCUG 20700 [29556M, LMG 8262]
Deposited As: *Campylobacter concisus* Tanner et al.
Type strain: No

Storage Conditions

Product format: Frozen

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.

BSL 2

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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
ATCC Medium 1645: Trypticase soy agar with 5% defibrinated sheep blood, formate and fumarate
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

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 37ºC 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 37ºC.

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-tern 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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Campylobacter concisus* Tanner et al. (ATCC 51562)

References

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

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