Campylobacter helveticus Stanley et al.

51209™

Description

Campylobacter helveticus strain NCTC 12470 is a bacterial type strain that was isolated from a cat in Switzerland.

Strain designation: NCTC 12470 [D5248]
Deposited As: *Campylobacter helveticus* Stanley et al.
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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 1115: Brucella albimi broth
ATCC Medium 177: Fluid thioglycollate medium
ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood
Temperature: 37°C
Atmosphere: Microaerophilic

Handling Procedures

1. Open thawed vial.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #1115 or 177 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the

primary broth tube to these secondary broth tubes.

3. Use several drops of the primary broth tube to inoculate a #260 plate and/or #260 agar slant.
4. Or, to obtain a biphasic culture, add several drops of the primary broth tube to a #260 agar slant. Best practice is to incubate these slants at an angle.
5. Incubate 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. All tubes and slants should be incubated with caps loosened.

Notes

This is a slow growing organism that requires moist conditions for best growth. A biphasic culture will give the most rapid growth. Growth at the broth/agar interface of the biphasic slant should occur within two to three days, but little turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy.

Establish growth in biphasic culture slant for 48 to 96 hours before transferring to agar plate. Growth on agar takes longer (between 5 to 7 days) after transferring from biphasic culture. Once good growth is present, these organisms tend to lose viability, especially if exposed to air for lengthy periods.

Fluid Thioglycollate tubes may be incubated aerobically.

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.

Two colony types may be observed. Colony type 1 is gray, flat, irregular, undulate, and smooth. Colony type 2 is gray, convex, circular, entire, and smooth.

Storage at vapor phase of 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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Campylobacter helveticus* Stanley et al. (ATCC 51209)

References

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

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