



Product Sheet

# *Campylobacter helveticus* (ATCC® 51209™)

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 helveticus* (ATCC® 51209™)

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  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

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## Description

**Designation:** NCTC 12470 [D5248]  
**Deposited Name:** *Campylobacter helveticus* Stanley et al.  
**Product Description:** Type strain.

## Propagation

### Medium

ATCC® Medium 1115: Brucella albimi broth  
ATCC® Medium 177: Fluid thioglycollate medium  
ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

### Growth Conditions

**Temperature:** 37°C  
**Atmosphere:** Microaerophilic gas mixture, 6% O<sub>2</sub>

### Propagation Procedure

1. Open vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.
2. Rehydrate the entire pellet with approximately 0.5 mL of #1115 or #177 broth.
3. 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.
4. Use several drops of the primary broth tube to inoculate a #260 plate and/or #260 agar slant.
5. 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.
6. 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. An atmosphere containing a 6% oxygen concentration is ideal. 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.

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](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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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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