ATCC

Product Sheet

Campylobacter jejuni (ATCC® 43474™)

Please read this FIRST

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 jejuni* (ATCC® 43474™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: MK100
Deposited Name: *Campylobacter coli* (Doyle) Veron and Chatelain
Antigenic Properties: Serotype O:20

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

Propagation Procedure
1. Open vial according to enclosed instructions.
2. Using a single tube of #1115 or #177 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the 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 37ºC, under microaerophilic conditions, for 48 to 72 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

Fluid Thioglycollate tube may be incubated aerobically.
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. The organism is a curved to spiral Gram negative rod with darting motility . Motility is best observed in young cultures.
Growth on agar takes longer than with the biphasic culture. Colonies are circular, entire, convex, and translucent.
Older colonies develop irregular edges and raised centers. Once good growth is present, these organisms tend to lose viability, especially if exposed to air for lengthy periods.
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% 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.

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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. 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 strain. If an alternative medium

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formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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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