Campylobacter jejuni subsp. *jejuni* (Jones et al.) Steele and Owen

43502™

Description

Strain designation: MK175
Deposited As: *Campylobacter jejuni* subsp. *jejuni* (Jones et al.) Veron and Chatelain
Type strain: No

Storage Conditions

Product format: Freeze-dried

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.

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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 260: Trypticase soy agar/broth with defibrinated sheep blood
Temperature: 37°C
Atmosphere: Microaerophilic

Handling Procedures

1. Open vial according to enclosed instructions.

2. Using a single tube of #2724 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.

3. Aseptically transfer this aliquot back into the broth tube. Mix well.

4. Use several drops of the suspension to inoculate a #2725 agar slant and/or plate.

5. Incubate the tubes and plate at 37°C for 48-72 hours.

Notes

Depositor states this strain is resistant to tetracycline

(64 ug/ml) and ampicillin (>128 ug/ml).

Depositor recommends Mueller Hinton (Oxoid) for growth. It may be advisable to add tetracycline and ampicillin to medium to maintain resistance.

To observe cells, examine a wet mount of the broth under phase microscopy. The organism is a straight to slightly curved Gram negative rod with darting motility. Motility is best observed in young cultures.

Colonies on #260 agar at 48 hours of incubation are circular, entire, low convex, and translucent. 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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Campylobacter jejuni* subsp. *jejuni* (Jones et al.) Steele and Owen (ATCC 43502)

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References

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

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