



Clostridium colinum **Berkhoff et al.**

27769™

Description

Strain designation: 72097

Deposited As: *Clostridium colinum* Berkhoff et al.

Type strain: No

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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 1

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 1017: Chopped meat glucose medium (ATCC Medium 593) with 5.0 g glucose

Temperature: 35-37°C

Atmosphere: Anaerobic

Handling Procedures

1. Open thawed vial according to enclosed instructions or visit www.atcc.org for instructions.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #1017 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these

secondary tubes.

3. Use several drops of the primary broth tube to inoculate a #1017 plate and #260 agar slant.
 4. Incubate all tubes and plate at 35-37°C for 24-36 hours.
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Notes

Check for growth often. This organism is remarkable for the inconspicuous way it grows and produces gas. Growth can be detected by examining the culture tubes, looking carefully for gas bubbles traveling from the bottom (sediment) towards the surface of the broth (don't shake the tube or you will lose the chance to see this). Once a culture starts growing it will complete its growth cycle in about 6-10 hours, time after which gas production will stop. Then the vegetative forms (and spores) will lyse quickly. This will be revealed by the presence of decolorized and distorted bacterial cells in the Gram stain. In order to successfully transfer cultures, TRANSFERS HAVE TO BE DONE FROM AN ACTIVELY GROWING CULTURE, BEFORE GAS PRODUCTION SUBSIDES. In summary, daily visual inspection of cultures to pinpoint optimum time for transfers are important. In spite of all precautions, broth culture can easily die out and it is recommended to keep the organism simultaneously growing on anaerobic blood agar plates or in roll tubes.

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: *Clostridium colinum* Berkhoff et al. (ATCC 27769)

References

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

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Product Sheet

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