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Description

Strain designation: 22 [L.S. McClung 1975]

Deposited As: *Clostridium histolyticum* (Weinberg and Seguin) Bergey et al.

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.

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 2107: Modified Reinforced Clostridial

Temperature: 37°C

Atmosphere: Anaerobic

Handling Procedures

- 1. Open vial according to enclosed instructions.**
- 2. Under anaerobic conditions, withdraw 0.5 ml of the recommended broth from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.**
- 3. Aseptically transfer this aliquot back into the broth. Additional tubes may be inoculated with 0.5 ml each from the suspension. 0.1 ml may also be inoculated onto a slant. Streak several blood plates to check for colonial morphology and purity.**
- 4. Incubate tubes under an anaerobic atmosphere at 37°C. Incubate one agar plate**

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anaerobically for colony formation, and one aerobically for aerobic contamination check.

5. Within 24-48 hours, growth is evident by turbidity in the broth and by circular, entire, and raised colonies on the anaerobic agar surfaces. No growth occurs on agar plates incubated aerobically.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

1. Open vial according to enclosed instructions.

2. Under anaerobic conditions, withdraw 0.5 to 1.0 ml of #2107 broth from a single test tube (5 to 6 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 #2107 agar slant, plate and/or a pre-reduced #260 blood plate. An aerobic blood plate may be streaked to check for purity.

5. Incubate the tubes and plates under anaerobic conditions at 37°C for 24 to 48 hours. Incubate the purity plate aerobically at 37°C.

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 - Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.
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Notes

Cells appear Growth should be evident at 24 to 48 hours by turbidity in the broth. Colonies on #260 agar are irregular, gray, raised, and glistening. No growth should occur on the aerobic plate.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

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Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: 6282 (ATCC 6282)

References

References and other information relating to this material are available at

www.atcc.org.

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