Escherichia coli (Migula) Castellani and Chalmers

23725™

Description

Strain designation: [A'327, EMG 11]
Deposited As: *Escherichia coli* (Migula) Castellani and Chalmers
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 3: Nutrient agar or nutrient broth
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #3 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a second tube of broth, a slant, and/or plate.

5. Incubate all tubes and plate at 37°C for 24 to 48 hours.

Notes

This strain requires proline for growth. To check this requirement, the organism is opened into a tube of #3 broth and a #3 plate streaked for isolation. After 24 hours, a small amount of a single colony is picked and a tube of minimal broth inoculated to produce a very light turbidity. A single drop of this suspension is passed into a second tube of minimal broth and a tube of minimal broth plus the required amino acid (L-proline used at 0.2 mg/ml). A tube of #3 broth is also inoculated with a single drop to assure enough cells were added for growth. After 24 and 48 hours incubation at 37° C, tubes are examined for growth. The tube without added amino acid should show no growth while the tubes with the added amino acid and the #3 broth should show turbidity.
On #3 plates, colonies are entire, glistening, circular, smooth, raised, and translucent.
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: *Escherichia coli* (Migula) Castellani and Chalmers (ATCC 23725)

References

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

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Revision

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