Product Sheet

Escherichia coli (Migula) Castellani and Chalmers

31278[™]

Description

Strain designation: K-12 W.3350 carrying lambda CI857 phage as lysogen **Deposited As:** *Escherichia coli* (Migula) Castellani and Chalmers **Type strain:** No

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Patent number:

4,332,897

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen Storage conditions: -80°C or colder

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 294: Tryptone with NaCl Temperature: 30°C Atmosphere: Aerobic



Handling Procedures

- 1. Open vial according to enclosed instructions.
- Using a single tube of #294 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 #294 agar slant and/or plate.
- 5. Incubate the tubes and plate at 26°C to 30°C for 24 hours.

Notes

This strain carries lambda phage C1857 as lysogen. Immediately upon opening, if two plates are spread with the culture and one incubated at 26°C and the other incubated at 40 - 42°C overnight, the 26°C plate will show heavy growth, whereas the 42°C plate will show only a few resistant colonies, indicating that the phage has been induced. If a broth culture is incubated at 42°C for 24 hours, the cells sedimented, and drops of the supernatant placed on a fresh lawn, lysis will be seen. The broth itself will not show clearing, and heavy plate inocula will grow at the higher temperatures due to the ready production of resistant cells.

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 31278)

References

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



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Page 6 of 6