Escherichia coli (Migula) Castellani and Chalmers

BAA-3389™

Description

Escherichia coli strain VC1394e is an enteropathogenic *E. coli* (EPEC) culture isolated in 2014 from the recto-anal mucosal swab of calf in New Zealand. This non–Shiga toxin–producing strain can be used as a diagnostic quality-control strain or as a laboratory safety model. It provides a safer BSL-2 surrogate for studying the O26 serogroup's environmental persistence and colonization mechanisms without the high-containment risks associated with Shiga toxin.

Strain designation: VC1394e
Deposited As: *Escherichia coli*
Type strain: No
Serotype: O26
Toxin genes: *stx1* (Shiga toxin 1) negative; *stx2* (Shiga toxin 2) negative

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 2

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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 18: Trypticase Soy Agar/Broth
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. Open thawed vial.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #18 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 #18 plate and/or #18 agar slant.
4. Incubate at 37°C for 24 hours.

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 BAA-3389)

References

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

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Revision

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