Escherichia coli (Migula) Castellani and Chalmers

BAA-2219™

Description

Escherichia coli strain 2002-3211 is a whole-genome sequenced EHEC (STEC with LEE/eae) strain that was isolated in Virginia from stool. It is toxigenic and is positive for the *eae* and *stx2* genes and negative for the *stx1* gene. This strain is serotype O121:H19 and has applications in enteric disease research and food testing.

Strain designation: 2002-3211
Type strain: No
Serotype: O121:H19
Toxigenic: Yes
Toxin genes: *eae* (Intimin) positive; *stx1* (Shiga toxin 1) negative; *stx2* (Shiga toxin 2) positive

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

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #18 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 #18 agar slant and/or plate.
5. Incubate the tubes and plate at 37°C for 24 hours.

Notes

This strain was confirmed by PCR to carry the *stx*2 and *eae* genes (*stx*1-, *stx*2+, *eae*+). 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 BAA-2219)

References

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

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