



Escherichia coli (Migula) Castellani and Chalmers

BAA-3420-NGS-PACK™

Description

Escherichia coli strain GTVSS-020 (ATCC BAA-3420-NGS-PACK) consists of 6 ready-to-use vials of BAA-3420 (not for individual sale) frozen in glycerol stock, eliminating the need to rehydrate and culture the strain prior to use. Each vial is provided with a 2-D barcode for easy storage and tracking as well as peel-off labels for fast and reliable recordkeeping. This strain is a component of the GenomeTrakr Validation Strain Set (GTVSS) (ATCC MP-44) for food testing and can be used as a next-generation sequencing (NGS) control for toxin detection. The culture was isolated in 2016 from all-purpose wheat flour in Missouri.

Strain designation: GTVSS-020

Deposited As: *Escherichia coli*

Type strain: No

Serotype: O121

Shipping information: 6 ready-to-use vials containing the strain in glycerol stock

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

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

Frozen cryovials packed in dry ice should either be thawed immediately for use or stored at or below -80°C until the expiration date printed on the label. Thaw the strain upright using gentle agitation in a 25°C to 30°C water bath. Thawing will be rapid; approximately 2-3 minutes or until all ice crystals have melted. Immediately after thawing, wipe down the mini-cryovial with 70% ethanol.

1. Open thawed vial.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #3 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 #3 plate and/or #3 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-3420-NGS-PACK)

References

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

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Revision

This information on this document was last updated on 2026-06-03

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