





Product Sheet

***Salmonella enterica subsp. enterica serovar Typhimurium* (ATCC® 13311-MINI-PACK™)**

Please read this **FIRST**

 Storage Temp. **-70°C or colder, store upright. Storage at -20°C is acceptable for up to 1 year.**

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 Biosafety Level **2**

**Intended Use**

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Salmonella enterica subsp. enterica serovar Typhimurium* (ATCC® 13311-MINI-PACK™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

 **Description**

**Designation:** NCTC 74

**Deposited Name:** *Salmonella typhimurium* (Loeffler) Castellani and Chalmers

**Antigenic Properties:** I 4,5,12:i:1,2

**Product Description:** ATCC® 13311-MINI-PACK™ consists of 6 ready-to-use vials of ATCC® 13311™ frozen in 200 µL of 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.

 **Propagation**

**Medium**

ATCC® Medium 3: Nutrient agar or nutrient broth

**Growth Conditions**

**Atmosphere:** Aerobic

**Temperature:** 37°C

**Propagation Procedure**

Frozen mini-cryovials packed in dry ice should either be thawed immediately for use or stored at or below -70°C until the expiration date printed on the label. Storage at -20°C is acceptable for up to 1 year.

1. Thaw the bacterial 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.
2. Immediately after thawing, wipe down the mini-cryovial with 70% ethanol and aseptically transfer the entire contents to a 5-6 mL tube of #3 broth or directly inoculate a #3 plate and/or #3 agar slant.
3. Discard the empty vial. Do not refreeze any unused portion as it will result in a loss of viability.
4. Incubate at 37°C for 24 hours.

 **Notes**

Purified genomic DNA of this strain is available as ATCC® 13311D-5™.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

 **References**

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

 **Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

**ATCC Warranty**

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.


This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC



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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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