

**Strain Designation:** C-1:NIH  
**Deposited Name:** *Trichomonas vaginalis* Donne  
**Depositor:** LS Diamond  
**Isolation:** Vaginal exudate from human adult female with acute vaginitis, 1956

Molecular authentication of the source material (seed stock) for distribution lots of ATCC 30001 has been performed at the species level by sequencing of the *Trichomonas vaginalis* SSU rRNA and AP65 adhesin genes.

### Growth Conditions

**Temperature:** 35°C  
**Atmosphere:** Microaerophilic  
**Culture System:** Axenic; pH 6

**Medium**  
- ATCC® Medium 2154: LYE Entamoeba medium  
- ATCC® Medium 361: Modified TYM basal medium (ATCC medium 358) with pH adjusted to 6.0 and 0.2-0.5 ml of heat-inactivated horse serum added per tube before use

### Instructions for Complete Medium

**Medium:** ATCC Medium 2154 adjusted to pH 6.0 with the addition 150 µL sterile 1N HCl per 13 mL of medium.  
**Alternate Medium:** ATCC medium 361

### Propagation

**Storage and Culture Initiation**  
Frozen ampules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampule, place it in a 35°C water bath, until thawed (2-3 min). Immerse the ampule just sufficient to cover the frozen material. Do not agitate the ampule.  
2. Immediately after thawing, aseptically transfer contents to a screw-capped test tube containing either 9 mL of ATCC medium 361 (completed with serum) or 13 mL ATCC Medium 2154 adjusted to pH 6.0. Incubate the tube at 35°C (tube should be vertical for medium 361 or on a 15° horizontal slant for medium 2154).

### Culture Maintenance

1. When the culture is at or near peak density, place the tubes on ice for 10 minutes.  
2. Gently invert the culture tube 10 times and aseptically transfer a 0.1-0.4 mL aliquot to a screw-capped test tube containing either 9 mL of ATCC medium 361 (completed with serum) or 13 mL ATCC Medium 2154 adjusted to pH 6.0.  
3. Incubate the culture at 35°C (tube should be vertical for medium 361 or on a 15° horizontal slant for medium 2154).  
4. Transfer the culture every 3-4 days as described in steps 1-2. The transfer interval will depend on the quantity of the inoculum and the quality of the medium. This should be empirically determined by examining the culture on a daily basis until the growth cycle has stabilized. Do not allow the culture to overgrow. The culture crashes soon after reaching peak density.

### Harvest and Preservation

1. Harvest cells from a culture that is at or near peak density by centrifugation at 800 x g for 5 min. The cells grown in a medium containing agar are concentrated by centrifugation, a solid pellet does not

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**Notes**

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Adjust the concentration of cells to $2 \times 10^6$ - $2 \times 10^7$ cells/mL in fresh medium.

2. Add $1.0 \text{ mL of DMSO to an ice cold 20 x 150 mm screw-capped test tube;}

3. Place the tube on ice and allow the DMSO to solidify (~5 min) and then add 9.0 mL of ice cold medium;

4. Invert several times to dissolve the DMSO;

5. Allow to warm to room temperature.

6. Incubate the culture at 35ºC with the cap screwed on tightly (tube should be vertical for medium 361 (completed with serum) or 13 mL ATCC Medium 2154 adjusted to pH 6.0).

7. The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecifed 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 strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

This product is intended for laboratory research purposes only. It is not intended for use in humans.
Product Sheet

Trichomonas vaginalis
(ATCC® 30001™)

Please read this FIRST

Storage Temp.
Frozen Cultures:
-70°C for 1 week;
liquid N₂ vapor
for long term storage

Freeze-dried Cultures:
2-8°C

Live Cultures:
See Protocols section for handling information

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: Trichomonas vaginalis (ATCC® 30001™)