



Product Sheet

# Modified PYNFH Medium [ATCC medium 1034] (ATCC® 327-X™)

Please read this FIRST

Storage Temp.  
2 to 8°C

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Biosafety Level  
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## Description

**Product Description:** This medium is the recommended formulation for the axenic cultivation of small, free-living amoebae, including *Hartmannella*, *Naegleria*, *Williaertia*, *Vahlkampfia*, *Capsaspora*, *Nuclearia*; the trypanosomatids *Crithidia*, *Blastocrithidia*, *Herpetomonas*, *Leptomonas*, *Phytomonas*; and certain ciliates such as *Tetrahymena*, *Dexiostoma*, and *Glaucoma*. It is provided freeze-dried, 1 vial prepares 55 mL of medium. The medium is ready to use upon rehydration with sterile glass-distilled water.

## Directions for Use

1. Alcohol the crimped aluminum cap and remove it.
2. Alcohol the rubber stopper and allow to dry.
3. Aseptically remove the rubber stopper and aseptically add 55 mL of double glass distilled sterile water. Swirl to completely dissolve the freeze-dried medium.
4. Aseptically distribute 5 mL of the rehydrated medium to a sterile 16 x 125 mm screw-capped test tube, or distribute 5-10 mL of the rehydrated medium to a sterile 25 cm<sup>2</sup> tissue culture flask.
5. Screw the cap on tightly and store at 2-8°C until ready to use. Use within approx. 30 days.
6. When ready to use, equilibrate the tube at the appropriate growth temperature before inoculation with the protist.
7. Follow standard procedure for maintaining culture as specified in the product sheet for that protist.

## Media Formulation

Peptone, 10.0 g  
Yeast Extract, 10.0 g  
Yeast Nucleic Acid, 1.0 g  
Folic Acid, 15.0 mg  
Double Glass Distilled H<sub>2</sub>O, 880.0 mL  
Fetal bovine serum (heat-inactivated), 100.0 mL  
Buffer Solution (see below), 20.0 mL  
**Buffer Solution:**  
KH<sub>2</sub>PO<sub>4</sub>, 18.1 g  
Na<sub>2</sub>HPO<sub>4</sub>, 25.0 g  
Double Glass Distilled H<sub>2</sub>O, 1.0 L

The final formulation is adjusted to pH = 6.5.

## ATCC Warranty

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, 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 strain. 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.

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

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