




Product Sheet


# Hypoxanthine - Aminopterin - Thymidine (H.A.T.) 500x concentrate (ATCC® 69-X™)

Please read this FIRST



Storage Temp.  
**Storage temperature of 2°C to 8°C is recommended.**

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Biosafety Level  
**1**

## Description

### Product Description:

This reagent is used in hybridoma production to select hybridomas from normal cell populations. HAT is supplied as five 2.0 mL vials. Each vial of concentrate can produce one liter of 1X HAT medium.

Each vial contains sterile, freeze-dried concentrate of:

- Hypoxanthine 13.610 mg
- Aminopterin 0.176 mg
- Thymidine 3.780 mg
- BSA fraction V 20.000 mg

**Volume:** 5 x 2 ml vials, each prepares 1 L of supplement

## Directions for Use

Rehydrate with sterile tissue culture medium to 1000 mL.

Final concentration:

Hypoxanthine 0.100 mM

Aminopterin 0.400 µM

Thymidine 0.016 mM

### Quality Control Specifications

The OM3-1.1 hybridoma cell line (ATCC HB-134™) was seeded in growth medium containing HAT. The population doubling time after two days of growth was ≤ 24 hours, indicating good growth, as expected for HAT resistant hybridoma cells. The P3/NSI/1-Ag4-1 (NS-1) plasmacytoma cell line (ATCC TIB-18™) was seeded in growth medium containing HAT. The cell concentration after 2 days of growth showed ≤ 20% change, indicating that the cells were dying in the presence of HAT, as expected for HAT-sensitive plasmacytoma cells.

## 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 If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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