



Product Sheet

# Trace Mineral Supplement (ATCC® MD-TMS™)

Please read this FIRST

Storage Temp.

**Store at 4 to 8°C**

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Biosafety Level

\*

## Description

### Product Description:

ATCC® Trace Mineral Supplement is used as an additive in many ATCC® recommended media, especially for cultivating extremophiles. It speeds media preparation and reduces possible lab errors by combining several trace mineral ingredients into one sterile solution. Product is provided in an individual unit of use (10 mL).

**Volume:** Package of 5 (10 mL/vial)

## Directions for Use

1. Prepare a fresh lot of medium. Sterilize by autoclaving or filter sterilizing as necessary.
2. Remove one vial of Trace Mineral Supplement from cold storage and bring it to room temperature.
3. If medium has been autoclaved, cool to 60°C. Aseptically add Mineral Supplement to sterile medium to the desired concentration (usually 1% but may vary according to specific formulations).
4. Mix well and dispense medium as needed.

### Formulation:

\*Based on Wolfe's mineral solution

EDTA, 0.5 g/liter

MgSO<sub>4</sub> · 7H<sub>2</sub>O, 3.0 g/liter

MnSO<sub>4</sub> · H<sub>2</sub>O, 0.5 g/liter

NaCl, 1.0 g/liter

FeSO<sub>4</sub> · 7H<sub>2</sub>O, 0.1 g/liter

Co(NO<sub>3</sub>)<sub>2</sub> · 6H<sub>2</sub>O, 0.1 g/liter

CaCl<sub>2</sub> (anhydrous), 0.1 g/liter

ZnSO<sub>4</sub> · 7H<sub>2</sub>O, 0.1 g/liter

CuSO<sub>4</sub> · 5H<sub>2</sub>O, 0.010 g/liter

AlK(SO<sub>4</sub>)<sub>2</sub> (anhydrous), 0.010 g/liter

H<sub>3</sub>BO<sub>3</sub>, 0.010 g/liter

Na<sub>2</sub>MoO<sub>4</sub> · 2H<sub>2</sub>O, 0.010 g/liter

Na<sub>2</sub>SeO<sub>3</sub> (anhydrous), 0.001 g/liter

Na<sub>2</sub>WO<sub>4</sub> · 2H<sub>2</sub>O, 0.010 g/liter

NiCl<sub>2</sub> · 6H<sub>2</sub>O, 0.020 g/liter

### Quality Control Specifications

Test/Method	Specification	Results
Sterility Testing*	Sterile	Pass

\*Each lot of Trace Mineral Supplement is tested for sterility by sampling the final packaged vial.

Test/Method	Specification	Results
<b>Sterility Test</b>		
<b>14 Day Incubation</b>	No Growth	No Growth

### 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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Or contact your local distributor



Product Sheet

## Trace Mineral Supplement (ATCC® MD-TMS™)

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 is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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)

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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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