



Product Sheet

# Mycoplasma Growth Supplement, 10x solution (ATCC® 20-2207™)

Please read this FIRST

Storage Temp.  
2 to 8°C

Biosafety Level  
\*

American Type Culture Collection  
PO Box 1549  
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Or contact your local distributor

## Description

### Product Description:

Mycoplasma Growth Supplement is used in broth and agar media to isolate and grow various mycoplasma species. At ATCC the 10x solution is an ingredient in ATCC Medium 988 (Spiroplasma SP-4 Medium).

Volume: 100 mL

## Directions for Use

Add Mycoplasma Growth Supplement to Spiroplasma Medium SP-4 according to the following formulation:

### Basal Medium:

PPLO Broth w/o Crystal Violet (BD 255420) 11.0 g  
Tryptone (BD 211705) 10.0 g  
Noble Agar (for solid medium) 8.0 g  
DI Water 525.0 mL

Adjust pH to 7.4 to 7.5. Gently boil to dissolve agar, if necessary. Autoclave for 15 minutes at 121°C. Cool agar medium to 50 to 55°C, broth to 55°C or cooler. Aseptically add additional ingredients (below).

### Additional Ingredients (all sterile):

Mycoplasma Growth Supplement 10x 50.0 mL  
Dextrose Solution 5% 100.0 mL  
Yeast Extract Solution 25% 35.0 mL  
TC Yeastolate Solution 2% (BD 255772) 100.0 mL  
Phenol Red Solution 0.1% 20.0 mL  
Fetal Bovine Serum (heat-inactivated) 170.0 mL

*Aseptically add these ingredients to the basal medium, mixing well by swirling. Adjust final pH to 7.25 to 7.4. Dispense as required.*

### Formulation of ATCC 20-2207 Mycoplasma Growth Supplement:

L-Alanine, 0.025 g/L  
L-Arginine, 0.05787 g/L  
L-Aspartic Acid, 0.03 g/L  
L-Cysteine•HCL•H<sub>2</sub>O, 0.26 g/L  
L-Cystine, 0.02 g/L  
L-Glutamic Acid, 0.075 g/L  
L-Glutamine, 0.1 g/L  
Glycine, 0.05 g/L  
L-Histidine HCl•H<sub>2</sub>O, 0.02 g/L  
Trans-4-Hydroxy-L-Proline, 0.01 g/L  
L-Isoleucine, 0.02 g/L  
L-Leucine, 0.06 g/L  
L-Lysine•HCl, 0.07 g/L  
L-Methionine, 0.015 g/L  
L-Phenylalanine, 0.025 g/L  
L-Proline, 0.04 g/L  
L-Serine, 0.025 g/L  
L-Threonine, 0.03 g/L  
L-Tryptophan, 0.01 g/L  
L-Tyrosine, 0.04 g/L  
L-Valine, 0.025 g/L  
L-Ascorbic Acid, 0.05 g/L  
PABA, 0.00005 g/L  
D-Biotin, 0.00001 g/L  
Choline Chloride, 0.0005 g/L  
Coenzyme A•Na, 0.0025 g/L  
Coccarboxylase, 0.001 g/L  
2'-Deoxyadenosine, 0.01 g/L  
2'-Deoxyguanosine, 0.01 g/L  
2'-Deoxycytidine•HCl, 0.0116 g/L  
Flavin Aadenine Dinucleotide•2Na, 0.000106 g/L



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- Folic Acid, 0.00001 g/L
- myo-Inositol, 0.00005 g/L
- 5-Methyldeoxycytidine, 0.0001 g/L
- β-NAD, 0.007 g/L
- β-NADP•Na, 0.001 g/L
- Niacinamide, 0.000025 g/L
- Nicotinic Acid, 0.000025 g/L
- D-Pantothenic Acid (hemicalcium), 0.00001 g/L
- Pyridoxal•HCl, 0.000025 g/L
- Pyridoxine•HCl, 0.000025 g/L
- Riboflavin, 0.00001 g/L
- Thiamine•HCl, 0.00001 g/L
- Thymidine, 0.01 g/L
- Uridine-5-Triphosphate•Na, 0.001 g/L
- Calcium Chloride (Anhydrous), 0.2 g/L
- Magnesium Sulfate (Anhydrous), 0.09769 g/L
- Potassium Chloride, 0.4 g/L
- Sodium Acetate (Anhydrous), 0.05 g/L
- Sodium Chloride, 6.8 g/L
- Sodium Phosphate Monobasic (Anhydrous), 0.122 g/L
- D-Glucose, 1.0 g/L
- Phenol Red•Na, 0.02124 g/L
- Glutathione, 0.01 g/L
- D-Glucuronic Acid•Na, 0.00388 g/L
- Cholesterol, 0.0002 g/L
- Tween 80, 0.005 g/L

### Quality Control Specifications

Test/Method	Specification	Results
Sterility Testing*	Sterile	Pass

\*Each lot of Mycoplasma Growth Supplement is tested for sterility by sampling the final packaged bottle.

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

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### 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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