# ATCC Medium: 0125 Thiobacillus Medium

	REAGENTS:		Agar	Broth
N/A □	Salt Solution			
	(NH4)2SO4	0.2 g	N/A g	0 g
	MgSO4 x 7H2O	0.5 g	N/A g	0 g
	CaCl2	0.25 g	N/A g	0 g
	KH2PO4	3 g	N/A g	0 g
	FeSO4 x H2O	5 mg	N/A mg	0 mg
	Tap water	1000 mL	N/A mL	0 mL

## N/A □ Sulfur

For Flask: place approximately 1.0 g of sulfur powder (precipitated) into a dry flask, per 100ml medium For Tube: place approximately 0.06 g of sulfur powder (precipitated) into a dry test tube, per 6ml medium

#### PROCEDURE:

	Steps	Check
N/A □	To make Salt Solution:	
	Accurately weigh out components for Salt Solution	
	Dissolve completely into Tap water	
	Start: End:	
	Filter sterilize	
N/A □	To make MD-0125:	
	Weigh out and place sulfur powder (see above for gram needed) into a dry flask and/or tube	
	Flask only: loosely cover each flask with a screw cap	
	Tube only: place aluminum foil over the top of the racked tubes	
	Autoclave sulfur powder @ 100 °C for 30 minutes (P11 cycle @ 100 celcius deg)	
	Repeat autoclave sterilization for 3 consecutive days	
	Aseptically dispense the filter sterilze salt solution into each of the sterilized Sulfur vessels	
	***NOTE: make sure to carefully pour the solution down the side of the flask. The sulfur powder should not "wet," it should float on top of the liquid	
	Carefully replace cap	

## NOTE:

## Salt solution volume to Sulfur ratio:

1.0 g of precipitated Sulfur powder per 100 mL of medium (flask)

0.1 g of precipitated Sulfur powder per 10 mL of medium (tube)

<sup>\*\*</sup> Sulfur is insoluble and has a low melting point of 106.8°C. Therefore, it must be processed separately from the salt solution. Amount is determined by vessel size as indicated above.