

1416. MST-MEDIUM, AUTOTROPHIC GROWTH

Mineral Salts Solution:

Na ₂ S ₂ O ₃ x 5 H ₂ O	5.0	g
NH ₄ Cl	1.0	g
MgSO ₄ x 7 H ₂ O	0.5	g
K ₂ HPO ₄	4.0	g
KH ₂ PO ₄	1.5	g
Trace element solution SL-10 (see below)	1.0	ml
Distilled Water	1000.0	ml

Prepare separate solutions of sodium thiosulfate and magnesium sulfate. Adjust solutions to pH 7.5 -8.0 and sterilize by autoclaving. Add sterile trace element solution after autoclaving and combining the solutions.

Trace element solution SL-10:

HCl (25%; 7.7 M)	10.0	ml
FeCl ₂ x 4 H ₂ O	1.5	g
ZnCl ₂	70.0	mg
MnCl ₂ x 4 H ₂ O	100.0	mg
H ₃ BO ₃	6.0	mg
CoCl ₂ x 6 H ₂ O	190.0	mg
CuCl ₂ x 2 H ₂ O	2.0	mg
NiCl ₂ x 6 H ₂ O	24.0	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.0	mg
Distilled water	990.0	ml

First dissolve FeCl₂ in the hydrochloric acid, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.