

ATCC Culture Medium 1908 (Complete Chlorella medium)

KH <sub>2</sub> PO <sub>4</sub> .....	0.34 g
Mg(NO <sub>3</sub> ) <sub>2</sub> •6H <sub>2</sub> O.....	0.51 g
KNO <sub>3</sub> .....	0.51 g
K <sub>2</sub> HPO <sub>4</sub> .....	0.44 g
Ca(NO <sub>3</sub> ) <sub>2</sub> .....	0.04 g
Iron-Versenol Stock Solution (see below).....	1.0 ml
Trace Elements Stock Solution (see below).....	1.0 ml
Glucose.....	1.0 g
Agar.....	20.0 g
Na <sub>2</sub> SO <sub>4</sub> .....	0.28 g
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Stock Solution (see below).....	20.0 ml
L-Methionine Stock Solution (see below).....	20.0 ml
Distilled H <sub>2</sub> O to.....	1.0 L

Iron-Versenol Stock Solution

Versenol.....	50.0 ml
FeCl <sub>2</sub> •4H <sub>2</sub> O.....	17.7 g
Distilled H <sub>2</sub> O to.....	1.0 L

Trace Elements Stock Solution

ZnCl <sub>2</sub> .....	50.0 mg
Mn(NO <sub>3</sub> ) <sub>2</sub> •6H <sub>2</sub> O.....	1.8 g
Cu(NO <sub>3</sub> )•3H <sub>2</sub> O.....	38.0 mg
H <sub>2</sub> MoO <sub>4</sub> •H <sub>2</sub> O.....	10.0 mg
H <sub>3</sub> BO <sub>3</sub> .....	1.43 g
Distilled H <sub>2</sub> O.....	1.0 L

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Stock Solution

Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .....	15.8 g
Distilled H <sub>2</sub> O.....	1.0 L

L-Methionine Stock Solution

L-Methionine.....	14.9 g
Distilled H <sub>2</sub> O.....	1.0 L

1. Prepare the various stock solutions by adding the ingredients in the order listed to distilled water. Filter sterilize each stock solution (aerate the Iron-Versenol Stock Solution overnight prior to filter sterilization).
2. To make Complete Chlorella Medium, add to distilled water the ingredients in the order listed up to and including NaSO<sub>4</sub>. Add agar in the amount specified if desired or omit to prepare ATCC medium 1908 broth only.
3. Adjust the volume to 960 ml with distilled water and autoclave. Allow to cool to approximately 60°C and aseptically add the filter-sterilized stock solutions.
4. If agarized medium is prepared, distribute in 20 ml aliquots to 20 x 100 mm Petri plates and allow to cool and solidify. If broth medium is prepared, distribute in 5 ml aliquots to 16 x 125 mm screw-capped test tubes.