

# MA Media Version 2

Dr. Steven Wilhelm

## Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.

Adapted from Ichimura, T. 1979 2. Isolation and culture methods of algae. 2.5.B. Freshwater algae [2. Sôri no bunri to baiyôh. 2.5.B. Tansui sôri]. In Methods in Phycological Studies [Sôri Kenkyûh], Eds. by Nishizawa, K. & Chihara, M., Kyoritsu Shuppan, Tokyo, p. 294-305 ( in Japanese without English title ).

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## Protocol

### Step 1.

Add 1 L Milli-Q H<sub>2</sub>O to a clean media bottle

### Step 2.

Add 50 mg Ca(NO<sub>3</sub>)<sub>2</sub>\*4H<sub>2</sub>O



#### REAGENTS

✓ calcium nitrate by Contributed by users

### Step 3.

Add 100 mg KNO<sub>3</sub>



#### REAGENTS

✓ Potassium nitrate by Contributed by users

### Step 4.

Add 50 mg NaNO<sub>3</sub>



#### REAGENTS

✓ Sodium nitrate [View](#) by [P212121](#)

### Step 5.

Add 40 mg  $\text{Na}_2\text{SO}_4$



#### REAGENTS



Sodium sulfate [View](#) by [P212121](#)

### Step 6.

Add 50 mg  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$



#### REAGENTS

Magnesium Chloride AC223210010 by [Fisher Scientific](#)

### Step 7.

Add 100 mg  $\beta\text{-Na}_2\text{glycerophosphate} \cdot 5\text{H}_2\text{O}$

### Step 8.

Add 5 mg  $\text{Na}_2\text{EDTA} \cdot 2\text{H}_2\text{O}$



#### REAGENTS

EDTA disodium dihydrate [AB1011793](#) by [Abblis](#)

### Step 9.

Add 0.5 mg  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$



#### REAGENTS

Iron(III) chloride hexahydrate [44944](#) by [Sigma Aldrich](#)

### Step 10.

Add 5 mg  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$



#### REAGENTS

Manganese chloride 7773-01-5 by [Fisher Scientific](#)

### Step 11.

Add 0.5 mg  $\text{ZnCl}_2$



#### REAGENTS



Zinc dichloride by Contributed by users

### Step 12.

Add 5 mg  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$



#### REAGENTS

Cobalt (II) chloride hexahydrate 7791-13-1 by [Fisher Scientific](#)

### Step 13.

Add 0.8 mg  $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$



#### REAGENTS



Sodium molybdate dihydrate by Contributed by users

### Step 14.

Add 20 mg  $\text{H}_3\text{BO}_3$



#### REAGENTS

Boric acid BP1681 by [Fisher Scientific](#)

### Step 15.

Add 500 mg Bicine



#### REAGENTS

Bicine BP26461 by [Fisher Scientific](#)

### Step 16.

Autoclave at 121°C for 20 min

### Step 17.

Adjust pH = 8.6