

MA Media

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 H₂O to a clean media bottle

Step 2.

Add 50 mg Ca(NO₃)₂*4H₂O



REAGENTS

✓ calcium nitrate by Contributed by users

Step 3.

Add 100 mg KNO₃



REAGENTS

✓ Potassium nitrate by Contributed by users

Step 4.

Add 50 mg NaNO₃



REAGENTS

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

Step 5.

Add 40 mg Na_2SO_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 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 H_3BO_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