Chu's-10 Media Version 3

Dr. Steven Wilhelm

Abstract

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

Adapted from the original publication Stein, J (ED.) 1973. Handbook of Phycological methods. Culture methods and growth measurements. Cambridge University Press. 448 pp.

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Protocol

Step 1.

Add 1 L Milli-Q H_2O to a clean media bottle

Step 2.

Add 0.232 g $Ca(NO_3)_2$*$4H_2O$

REAGENTS
calcium nitrate by Contributed by users

Step 3.

Add 0.01 g K_2HPO_4

REAGENTS
Potassium phosphate (dibasic) View by P212121

Step 4.

Add 0.025 g $MgSO_4$*$7H_2O$

REAGENTS
Magnesium Sulfate View by P212121

Step 5.

Add 0.02 g Na_2CO_3

REAGENTS
Sodium carbonate View by P212121

Step 6.

Add 0.044 g $Na_2SiO_3*5H_2O$

REAGENTS
Sodium metasilicate by Contributed by users

Step 7.

Add 3.5 mg Ferric citrate

Step 8.

Add 3.5 mg Citric acid

REAGENTS
Citric Acid View by P212121

Step 9.

Add 1 mL of Metal solution

PROTOCOL

. Chu's-10 Metal Solution

CONTACT: Steven Wilhelm

Step 9.1.

Add 1 L Milli-Q H_2O to a clean media bottle

Step 9.2.

Add 2.4 g H_3BO_3

REAGENTS
Boric acid BP1681 by Fisher Scientific

Step 9.3.

Add 1.4 g $MnCl_2*4H_2O$

REAGENTS
Manganese chloride 7773-01-5 by Fisher Scientific

Step 9.4.

Add 0.4 g $ZnCl_2$

REAGENTS
- Zinc dichloride by Contributed by users

Step 9.5.

Add 0.02 g $CoCl_2*6H_2O$

REAGENTS
- Cobaltous chloride hexahydrate by Contributed by users

Step 9.6.

Add 0.1 mg $CuCl_2*2H_2O$

REAGENTS
Copper (II) chloride dihydrate 10125-13-0 by Fisher Scientific

Step 10.

If making agar, add 15 g to media

Step 11.

Autoclave at 121ºC for 20 min