

Reference : GUILLARD, R.R.L. & LORENZEN, C.J., 1972. Yellow-green algae with Chlorophyllide. *J. Phycol.*, 8, n°1: 10-14.

Note : Use fresh Milli-Q water to prepare stock solutions and culture medium.
The stock solutions and culture medium are stored in the refrigerator.

List of stocks solutions stocks and reagents :

- MWC1 : CaCl₂, 2 H₂O at 36,8 g/L
- MWC2 : MgSO₄, 7 H₂O at 25 g/L
- MWC3 : NaHCO₃ at 15,9 g/L
- MWC4 : K₂HPO₄, 3 H₂O at 40,62g/L
- MWC5 : NaNO₃ at 85 g/L
- MWC6 : Na₂O₃Si, 5 H₂O at 21,2 g/L or (Na₂O₃Si, 9 H₂O at 28,4 g/L)
- MWC7 : Trace elements solution (*)
- MWC8 : Vitamins solution (**)
- MWC9 : TES (C₆H₁₅NO₆S)

(*)Trace elements solution :

In a 500 ml volumetric flask, weigh :

- 2,18 g of EDTA-Na₂
- 1,575 g of FeCl₃, 6 H₂O
- 5 mg of CuSO₄, 5 H₂O
- 11 mg of ZnSO₄, 7 H₂O
- 5 mg of CoCl₂, 6 H₂O
- 90 mg of MnCl₂, 4 H₂O
- 3 mg of Na₂MoO₄, 2 H₂O
- 0,5 g of de H₃BO₃

Then adjust to volume with Milli-Q water.

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(**) Vitamins solution :

In a 1 L volumetric flask, weigh :

- 0,5 mg of Cyanocobalamine (*Vitamine B₁₂*)
- 100 mg of Thiamine HCl (*Vitamine B₁*)
- 0,5 mg of Biotin (*Vitamine B₈*)

Then adjust to volume with Milli-Q water.

Preparation of 1 liter of MWC medium :

N_o of stock solution	Name of stock solution	Concentration of stock solution (g/L)	Volume of stock solution (mL)
MWC1	CaCl ₂ , 2 H ₂ O	36,8	1
MWC2	MgSO ₄ , 7 H ₂ O	25	1,5
MWC3	NaHCO ₃	15,9	0,792
MWC4	K ₂ HPO ₄ , 3 H ₂ O	40,62	0,281
MWC5	NaNO ₃	85	1
MWC6	Na ₂ O ₃ Si, 5 H ₂ O	21,2	1
MWC7	Trace elements solution	-	1
MWC8	Vitamins solution	-	1

Add 115 mg of TES (MWC9) and complete to 1 liter with Milli-Q water.

Then filter the MWC medium through a filter of 0,22 µm in diameter in the laminar flow hood.

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