Note : This medium is used fo the majority of chlorophyceae.
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 :

- LC1 : $Ca(NO_3)_2$, 4 $H_2O$ at 20 g/L
- LC2 : $K_2HPO_4$, $3H_2O$ at 40,62 g/L or ($K_2HPO_4$ at 20 g/L)
- LC3 : $MgSO_4$, 7 $H_2O$ at 25 g/L
- LC4 : $NO_3K$ at 50 g/L

LC5 : Ferric ammonium citrate iron at 0,3 g/L

- LC6 : Soil extracts
- LC7 : Bryophtytes extracts
- LC8 : Trace elements solution (*)

(*) Trace elements solution:

In a 500 ml volumetric flask, weigh :

| Element name | Mass weight (en mg) |
|---|---|
| $ZnCl_2$ | 52 |
| $MnCl_2$, 4 $H_2O$ | 757 |
| $CuCl_2$, 2 $H_2O$ | 26,5 |
| $CoCl_2$, 6 $H_2O$ | 20 |
| $MoO_4Na_2$ | 10,5 |

Then adjust to volume with Milli-Q water

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|---|---|---|---|
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**Preparation of 1 liter of L.C culture medium:**

| **$N_0$ of stock solution** | **Name of stock solution** | **Concentration of stock solution(g/L)** | **Volume of stock solution (mL)** |
|---|---|---|---|
| LC1 | $Ca(NO_3)_2, 4\ H_2O$ | 20 | 1,5 |
| LC2 | $K_2HPO_4, 3\ H_2O$ | 40,62 | 1,30 |
| LC3 | $MgSO_4, 7\ H_2O$ | 25 | 1,2 |
| LC4 | $NO_3K$ | 50 | 4 |
| LC5 | Ferric ammonium citrate iron | 0,3 | 10 |
| LC6 | Extract of Earth | - | 10 |
| LC7 | Extract of foam | - | 5 |
| LC8 | Trace elements solution | - | 0,1 |

Complete to 1 liter with fresh MilliQ water.

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

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|---|---|---|---|
| Name :<br>Fonction :<br>Visa : | Huguet Isabelle<br>Technician | Chardon Cécile<br>Research technician | Rimet Frédéric<br>Ingineer |