# ES-medium

Modified Erd-Schreiber-medium, McLachlan 1973

**Stock solution and dosage:**

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|  | **Stock solution** | **Dosage** |
| NaNO3 | 50 g/L | 2 ml/L |
| Na2 HPO412H2O | 10 g/L | 2 ml/L |
| Na2FeEDTA\* | 1.5 g/L | 0.5 ml/L |
| Vitamin solution |  | 2 ml/L |
| Soil extract\*\* |  | 10 ml/L |

\* C10H12FeN2NaO8

\*\* Mix 500 g garden soil and 500 ml distilled water

Autoclave

Wait for sedimentation (1-3days), Sentrifuge 8000 rpm, 45 min. (or decant the extract)

Filtrate the extract through glasfibrefilter (GF/C) and thereafter through membranefilter (0.8µm –preferably 0.45µm)

Fill 10 ml in test tubes

Autoclave once more

Store cold.

For the medium **seawater**, ca 34 o/oo, GF/C-filtered is used. **Stock solutions** are added and the medium is autoclaved.

The phosphate component might be autoclaved separately (e.g. 2 ml in ca. 5 ml dest.water) and added to the cooled medium together with the sterile soil extract.