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BG11 medium (working group Wilde)

Christin Köbler[1], Annegret Wilde[1]

[1]Institute of Biology III, Faculty of Biology, University of Freiburg, 79104 Freiburg, Germany

1 Works for me dx.doi.org/10.17504/protocols.io.wj5fcq6

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ABSTRACT

100x BG11 (500 ml)

74.79 g $NaNO_3$
3.75 g $MgSO_4 \times 7H_2O$
1.8 g $CaCl_2 \times 2H_2O$
0.30 g Citric Acid
0.28 ml 0,5 M Na_2EDTA (pH 8)

Add *Aqua bidest* (**ddH_2O**) to a final volume of 500 ml. Aliquot (5x100 ml) and autoclave. Store at 4°C.

Trace-Metal-Mix (500 ml)

1.43 g H_3BO_3
900 mg $MnCl_2 \times 4H_2O$
110 mg $ZnSO_4 \times 7H_2O$
195 mg $Na_2MoO_4 \times 2H_2O$
39.5 mg $CuSO_4 \times 5H_2O$
24.7 mg $Co(NO_3)_2 \times 6H_2O$

Put some **ddH_2O** into the bottle; dissovle the salts seperately and fill up to 500 ml. Sterile filter and aliquot the solution (10 x 50 ml). Store at 4°C.

2x BG11 (1 L)

20 ml 100x BG11
2 ml $K_2HPO_4 \times 3H_2O$ (30 mg/ml)
2 ml Na_2CO_3 (20 mg/ml)
2 ml Trace-Metal-Mix

Add 900 ml deionized water, afterwards add the solutions, fill up to 1 L with deionized water and autoclave. Store at RT.
Before use add 2 ml of Fe-Ammonium-Citrate (6 mg/ml).

1xBG11 (1 L)

10 ml 100xBG11
10 ml TES pH 8
1 ml K_2HPO_4 (30 mg/ml)
1 ml Na_2CO_3 (20 mg/ml)
1 ml Trace-Metal-Mix

Add 900 ml deionized water, afterwards add the solutions, fill up to 1 L with deionized water and autoclave. Store at RT.

Before use add 1 ml of Fe-Ammonium-Citrate (6 mg/ml).