Jul 11, 2019

# BG11 medium (working group Wilde)

Journal of Bacteriology

DOI
dx.doi.org/10.17504/protocols.io.wj5fcq6

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OPEN ACCESS

**DOI:** dx.doi.org/10.17504/protocols.io.wj5fcq6

**External link:** https://doi.org/10.1128/JB.00478-19

**Protocol Citation:** Christin Köbler, Annegret Wilde 2019. BG11 medium (working group Wilde). **protocols.io** https://dx.doi.org/10.17504/protocols.io.wj5fcq6

**Manuscript citation:**
Wiegard A, Köbler C, Oyama K, Dörrich AK, Azai C, Terauchi K, Wilde A, Axmann IM, Array. Journal of Bacteriology 202(4). doi: 10.1128/JB.00478-19



**Protocol status:** Working
**We use this protocol and it's working**

**Created:** December 21, 2018

**Last Modified:** July 11, 2019

**Protocol Integer ID:** 18781

## 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* (**dd$H_2O$**) to a final volume of 500 ml. Aliquot (5×100 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 **dd$H_2O$** into the bottle; dissovle the salts seperately and fill up to 500 ml. Sterile filter and aliquot the solution (10 × 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).