

BG11_o (Blue-Green Medium)

Nitrogen fixing cyanobacteria

Stocks

	per 500 ml
(1) -	
(2) K ₂ HPO ₄	2.0 g
(3) MgSO ₄ .7H ₂ O	3.75 g
(4) CaCl ₂ .2H ₂ O	1.80 g
(5) Citric acid *	0.30 g
(6) Ammonium ferric citrate green *	0.30 g
(7) EDTANa ₂	0.05 g
(8) Na ₂ CO ₃	1.00 g
(9) Trace metal solution:	per litre
H ₃ BO ₃	2.86 g
MnCl ₂ .4H ₂ O	1.81 g
ZnSO ₄ .7H ₂ O	0.22 g
Na ₂ MoO ₄ .2H ₂ O	0.39 g
CuSO ₄ .5H ₂ O	0.08 g
Co(NO ₃) ₂ .6H ₂ O	0.05 g

Medium

	per litre
Stock solutions 2 - 8	10.0 ml each
Stock solution 9	1.0 ml

This medium is standard BG11 but **omitting** Stock 1 NaNO₃.

Make up to 1 litre with deionized water. Adjust pH to **7.1** with 1M NaOH or HCl. For agar add 15.0 g per litre of Bacteriological Agar (Oxoid L11). Autoclave at 15 psi for 15 minutes.

*Due to precipitation, larger volumes require stocks 5 & 6 to be autoclaved separately in 100ml deionized water or alternatively they can be autoclaved separately in test tubes and added to sterile medium in the airflow cabinet.

Supply

Unipath Ltd, Wade Road, Basingstoke, Hants, RG24 0PW, UK

Reference

Rippka R, Deruelles J, Waterbury JB, Herdman M, Stanier RY (1979) Generic assignments, strain histories and properties of pure cultures of Cyanobacteria Journal of General Microbiology 111, 1-61.

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Created on: 05 Nov 2019	CCAP (Culture Collection of Algae and Protozoa), SAMS Ltd, Scottish Marine Institute, Oban, Argyll, PA37 1QA, UK Tel: +44 (0)1631 559000 Fax: +44 (0)1631 559001 Email: ccap@sams.ac.uk Web: www.ccap.ac.uk	Page: 1 of 1
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