BG11 (Blue-Green Medium)

Freshwater algae and protozoa

Stocks		**per 500ml**
(1)	$NaNO_3$	75.0 g
		per 100 ml
(2)	K_2HPO_4	4.0 g
(3)	$MgSO_4.7H_2O$	7.5 g
(4)	$CaCl_2.2H_2O$	3.6 g
(5)	Citric acid*	0.60 g
(6)	Ammonium ferric citrate green*	0.60 g
(7)	Na_2EDTA	0.10 g
(8)	Na_2CO_3	2.00 g
(9)	Trace elements:	**per litre**
	H_3BO_3	2.86 g
	$MnCl_2.4H_2O$	1.81 g
	$ZnSO_4.7H_2O$	0.22 g
	$Na_2MoO_4.2H_2O$	0.39 g
	$CuSO_4.5H_2O$	0.08 g
	$Co(NO_3)2.6H_2O$	0.05 g

Medium	**per litre**
Stock solution 1	10.0 ml
Stock solutions 2 - 9	1.0 ml each

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

*Due to precipitation, larger volumes require stocks 5 & 6 to be autoclaved separately or filter sterilised and added to sterile medium in the airflow cabinet.

$BG11_0$

For Nitrogen fixing cyanobacteria, prepare standard BG11 while omitting Stock 1.

Reference

Allen, M. M.; Stanier, R. Y. (1968). Growth and Division of Some Unicellular Blue-green Algae. Journal of General Microbiology, 51(2), 199–202 – adapted for CCAP

Reviewed: 17th January 2025