

ASN3

(Modified from: Rippka R., 1988. Isolation and purification of cyanobacteria. *Method Enzymol.* 167: 3-27.)

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Final Concentration (mM)
NaCl	250	100	428
MgCl ₂ · 6H ₂ O	200	10	10
KCl	50	10	6.5
MgSO ₄ · 7H ₂ O	350	10	14
CaCl ₂ · 2H ₂ O	50	10	3
Na ₃ -citrate	0.6	5	0.012
Na ₂ -EDTA · 2H ₂ O	0.1	5	0.0013
Trace metal mix (A5 + Co)	See recipe below	1	-

Adjust to 900mL with mQ water and autoclave.

After cooling, add the following filter sterilized (0.2 µm) components to complete the medium:

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Final Concentration (mM)
NaNO ₃	150	5	8.8
K ₂ HPO ₄ · 3H ₂ O	4	5	0.088
Na ₂ CO ₃	20	1	0.19
Fe-NH ₄ -citrate	6	0.5	-
Vitamin B12 (Cyanocobalamin)	0.02	1	-

For solid medium use 7g/L of agarose. Sterilize the agarose separately in 550 ml of milliQ water. In this case the mineral solution is filled up to 400 ml.

Trace metal mix A5 + Co:

Trace metals	Quantity g/L	Concentration in the final media (mM)
H ₃ BO ₃	2.86	0.047
MnCl ₂ · 4H ₂ O	1.81	0.009
ZnSO ₄ · 7H ₂ O	0.22	0.0007
Na ₂ MoO ₄ · 2H ₂ O	0.39	0.0016
CuSO ₄ · 5H ₂ O	0.08	0.0003
Co(NO ₃) ₂ · 6H ₂ O	0.05	0.0002