1680: Cyanobacteria Medium MCL

Final volume: 1000 ml

Artificial Sea Salt (hw Marinemix 21010; Wiegandt GmbH – Products for aquaristics, Sterkenhofweg 13, 47807 Krefeld, Germany)	33.00	g
MCL Stock Solution A *	5.00	ml
MCL Stock Solution B **	5.00	ml

1. Adjust to 1000 ml with MilliQ water and autoclave (121°C, 20 min).
2. After cooling add the following filter sterilized component under sterile conditions:

MCL Vitamin Stock Solution ***	1.00	ml

MCL Stock Solution A * (from medium 1680)

$CuSO_4$ x 7 H_2O (1.92 g/l stock solution)	5.00	ml
$MnSO_4$ x H_2O (2.4 g/l stock solution)	100.00	ml
$ZnSO_4$ x 7 H_2O (0.44 g/l stock solution)	100.00	ml
$Fe(NH_4)_2(SO_4)_2$ x 6 H_2O (5.6 g/l stock solution)	100.00	ml

Adjust to 500 ml with MilliQ water.

MCL Stock Solution B ** (from medium 1680)

$FeCl_3$ (0.96 g/l stock solution)	100.00	ml
H_3BO_3 (22.4 g/l stock solution)	100.00	ml
$NaNO_3$ (84.0 g/l stock solution)	100.00	ml
Na_2-EDTA x 2 H_2O (25.3 g/l stock solution)	100.00	ml
Sodium beta-glycerophosphate (8.0 g/l stock solution)	100.00	ml

Mix to obtain 500 ml of MCL Stock Solution B.

MCL Vitamin Stock Solution *** (from medium 1680)

Vitamin B_{12} (1.0 mg/ml stock solution)	160.00	µl
Biotin (1.0 mg/ml stock solution)	160.00	µl
Thiamine (10.0 mg/ml stock solution)	800.00	µl

Adjust to 100 ml with MilliQ water.