

87. CHLOROFLEXUS MEDIUM (modified)

Yeast extract	1.00	g
Glycyl-glycine	1.00	g
Na ₂ HPO ₄ x 2 H ₂ O	0.10	g
MgSO ₄ x 7 H ₂ O	0.10	g
KNO ₃	0.10	g
NaNO ₃	0.50	g
NaCl	0.10	g
CaCl ₂ x 2 H ₂ O	0.05	g
Fe(III) citrate solution (0.1 g in 100 ml H ₂ O)	5.00	ml
Trace element solution SL-6 (see medium 27)	1.00	ml
Distilled water	1050.00	ml

Adjust pH to 8.2.

Boil the medium under a stream of nitrogen gas for a few minutes and distribute 90 ml medium into 100 ml screw-capped bottles. Bubble each bottle with nitrogen gas and close immediately with a rubber septum and screw tight. Autoclave at 121°C for 15 min. After autoclaving inject 1.0 ml of neutralized sulfide solution (0.015% end concentration, see medium 27) to each bottle. This medium can be stored for several months. Incubate the culture at 50°C at a light intensity of 300 - 500 lux. For heavy cell suspension supplement periodically with sterile yeast extract solution (0.1% end concentration, for more details see Ref. 3365, 3366).