

29. PFENNIG'S MEDIUM II (modified 1988, for green sulfur bacteria)

In medium 28 make the following alterations:

Solution D:

Trace element solution (SL-10 B)	5.0	ml
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Autoclave at 121°C for 15 min.

Trace element solution SL-10 B:

Distilled water	1000.0	ml
HCl (25%)	7.7	ml
FeSO ₄ x 7 H ₂ O	1.5	g
ZnCl ₂	70.0	mg
MnCl ₂ x 4 H ₂ O	100.0	mg
H ₃ BO ₃	300.0	mg
CoCl ₂ x 6 H ₂ O	190.0	mg
CuCl ₂ x 2 H ₂ O	2.0	mg
NiCl ₂ x 6 H ₂ O	24.0	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.0	mg

Solution F:

Na ₂ S x 9 H ₂ O (10 g in 100 ml)	30.0	ml
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Prepare in screw-cap bottles as in the case of medium 28.

After combining and mixing all solutions (as in the case of medium 28) adjust the pH of this medium with sterile HCl or Na₂CO₃ solution (2 mol/liter each) to pH 6.8.

All other steps are the same as used in medium 28. Incubate in the light using a tungsten lamp. Feed periodically with neutralized solution of sodium sulfide (see medium 27) and other supplement solutions to replenish photosynthetic electron donors (see Ref. 3365).