

1819: Ectothiorhodospira lacustris medium

NH ₄ Cl	0.50	g/l
KH ₂ PO ₄	0.50	g/l
MgCl ₂ x 6 H ₂ O	0.20	g/l
CaCl ₂ x 2 H ₂ O	0.10	g/l
KCl	0.30	g/l
Yeast extract	0.10	g/l
Na-acetate	0.50	g/l
Na ₂ S ₂ O ₃ x 5 H ₂ O	0.50	g/l
Trace elements solution (Pfennig & Lippert,1966)	1.00	ml
Distilled water	1000.00	ml

1. Dissolve components (without bicarbonate, sulfide and vitamin solutions).
2. Sparge medium with 100% N₂ gas mixture.
3. Aliquot into vials (e.g, Hungate tubes, 9 mL each).
4. Autoclave at 121 °C for 15 min.
5. After autoclaving, add the following sterile solutions.

NaHCO ₃ (3% in water, autoclaved)	100.00	ml/l
Na ₂ S x 9 H ₂ O (5% solution in water, autoclaved)	10.00	ml/l
Wolin's vitamin solution	1.00	ml/l

6. Adjust pH to 8.5-9.0.

Trace elements solution (Pfennig & Lippert,1966) (from medium 1369)

EDTA	5.00	g
FeSO ₄ x 7 H ₂ O	2.20	g
ZnSO ₄ x 7 H ₂ O	0.10	g
MnCl ₂ x 4 H ₂ O	0.03	g
H ₃ BO ₃	0.03	g
CoCl ₂ x 6 H ₂ O	0.20	g
CuCl ₂ x 2 H ₂ O	0.03	g
NiCl ₂ x 6 H ₂ O	0.03	g
Na ₂ MoO ₄ x 2 H ₂ O	0.03	g
Distilled water	1000.00	ml

pH 3.0-4.0

Wolin's vitamin solution (from medium 141)



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Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine hydrochloride	10.00	mg
Thiamine HCl	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
Calcium D-(+)-pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg
(DL)-alpha-Lipoic acid	5.00	mg
Distilled water	1000.00	ml