

1369. ECTOTHIORHODOSPIRA MAGNA MEDIUM

KH ₂ PO ₄	0.50	g
NaCl	30.00	g
NH ₄ Cl	0.50	g
MgCl ₂ x 6 H ₂ O	0.20	g
Na-acetate	1.00	g
Na ₂ S ₂ O ₃	0.50	g
Na ₂ S x 9 H ₂ O	0.50	g
NaHCO ₃	5.00	g
Na ₂ CO ₃	5.00	g
Yeast extract	0.10	g
Vitamin B ₁₂	10.00	µg
Trace elements solution (see below)	1.00	ml
Distilled water	1000.00	ml

pH 9.0-9.5

Prepare the medium without the NaHCO₃, Na₂S x 9 H₂O, Na₂CO₃ and vitamin B₁₂, under a nitrogen atmosphere.

Autoclave and add the vitamin B₁₂ from a filter-sterilised stock solution and the NaHCO₃ (autoclaved in sealed, half full vessels), Na₂S x 9 H₂O, Na₂CO₃ from sterile stock solutions. The final pH of the medium should be 9.0-9.5.

Trace elements solution (Pfennig & Lippert, 1966)

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 6H 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