

1561. Medium for broad range phototrophic bacteria

Yeast extract	0.30	g
NH ₄ Cl	0.50	g
KH ₂ PO ₄	0.50	g
MgCl ₂ x 6 H ₂ O	0.30	g
KCl	0.50	g
Na ₂ S ₂ O ₃	0.10	g
NaCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.05	g
sodium acetate	0.50	g
sodium malate	0.50	g
HEPES	3.00	g
Trace element solution	1.00	ml
Distilled water	1000.00	ml

Adjust pH to 7.5.

Autoclave at 121°C for 15 min. Before inoculation add 1.0 ml/ l 5% sulfide solution pH 7.5 and 1.0 ml/l vitamin solution.

Trace element solution:

Nitrilotriacetic acid	1.50	g
MgSO ₄ x 7 H ₂ O	3.00	g
MnSO ₄ x H ₂ O	0.50	g
NaCl	1.00	g
FeSO ₄ x 7 H ₂ O	0.10	g
CoSO ₄ x 7 H ₂ O	0.18	g
CaCl ₂ x 2 H ₂ O	0.10	g
ZnSO ₄ x 7 H ₂ O	0.18	g
CuSO ₄ x 5 H ₂ O	0.01	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.02	g
H ₃ BO ₃	0.01	g
Na ₂ MoO ₄ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.03	g
Na ₂ SeO ₃ x 5 H ₂ O	0.30	mg
Distilled water	1000.00	ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Final pH 7.0 (with KOH).

Vitamin solution:

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl x 2 H ₂ O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Ca-pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml