

630. MODIFIED THERMUS 162 MEDIUM

Yeast extract	2.50	g
Tryptone	2.50	g
Agar	28.00	g
Nitrilotriacetic acid	100.00	mg
CaSO ₄ x 2 H ₂ O	40.00	mg
MgCl ₂ x 6 H ₂ O	200.00	mg
0.01 M Fe citrate	0.50	ml
Trace element solution (see below)	0.50	ml
Phosphate buffer (see below)	100.00	ml
Distilled water	900.00	ml

Adjust pH to 7.2 with NaOH. Autoclave at 121°C for 15 min. Autoclave the phosphate buffer separately and then add to the medium.

Phosphate buffer:

KH ₂ PO ₄	5.44	g
Na ₂ HPO ₄ x 12 H ₂ O	43.00	g
Distilled water	1000.00	ml
Adjust pH to 7.2		

Trace element solution:

Nitrilotriacetic acid	12.80	g
FeCl ₂ x 4 H ₂ O	1.00	g
MnCl ₂ x 4 H ₂ O	0.50	g
CoCl ₂ x 4 H ₂ O	0.30	g
CuCl ₂ x 2 H ₂ O	50.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	50.00	mg
H ₃ BO ₃	20.00	mg
NiCl ₂ x 6 H ₂ O	20.00	mg
Distilled water	1000.00	ml

Dissolve the nitrilotriacetic acid, adjust the pH to 7.0 with KOH (about 8 - 9 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H₂SO₄.