630: MODIFIED THERMUS 162 MEDIUM

This recipe contains strain-specific modifications for *Rhodothermus marinus* DSM 4253 *

Final pH: 7.2
Final volume: 1000 ml

Yeast extract	2.50	g
Tryptone	2.50	g
Agar	28.00	g
Nitrilotriacetic acid	100.00	mg
$CaSO_4$ x 2 H_2O	40.00	mg
$MgCl_2$ x 6 H_2O	200.00	mg
Fe(III) citrate (0.01 M)	0.50	ml
Trace element solution	0.50	ml
Phosphate buffer	100.00	ml
NaCl	10.00	g/l
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.

* Plus 1% NaCl

Phosphate buffer (from medium 630)

KH_2PO_4	5.44	g
Na_2HPO_4 x 12 H_2O	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_2O	1.00	g
$MnCl_2$ x 4 H_2O	0.50	g
$CoCl_2$ x 4 H_2O	0.30	g
$CuCl_2$ x 2 H_2O	50.00	mg
Na_2MoO_4 x 2 H_2O	50.00	mg
H_3BO_3	20.00	mg
$NiCl_2$ x 6 H_2O	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 H_2SO_4.