

1544: . PIRELLULA MEDIUM (M30)

Final pH: 7.5

Final volume: 1000 ml

Solution 1	950.00	ml
Solution 2	50.00	ml

Solution 1

Hutner's salts	20.00	ml
Tris-HCl buffer (0.1M, pH 7.5)	50.00	ml
Gelrite	8.00	g
MgCl ₂	1.00	g
Sea water (Biomaris)	700.00	ml
Distilled water	190.00	ml

Adjust pH to 7.5, autoclave at 121°C for 20 min.

Solution 2

N-Acetylglucosamine	2.00	g
Na ₂ HPO ₄ x 2 H ₂ O	0.01	g
Vitamin solution No.6	10.00	ml
Distilled water	40.00	ml

Adjust pH to 7.5, filter-sterilize.

Vitamin solution No.6

Vitamin B ₁₂	0.20	mg
Biotin	4.00	mg
Thiamine-HCl x 2 H ₂ O	10.00	mg
Calcium pantothenate	10.00	mg
Folic acid	4.00	mg
Riboflavin	10.00	mg
Nicotinamide	10.00	mg
p-Aminobenzoic acid	10.00	mg
Pyridoxine hydrochloride	20.00	mg
Distilled water	1000.00	ml

Hutner's salts (from medium 590)

Nitrilotriacetic acid (NTA)	10.000	g
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MgSO ₄ x 7 H ₂ O	29.700	g
CaCl ₂ x 2 H ₂ O	3.335	g
(NH ₄) ₆ Mo ₇ O ₂₄ x 4 H ₂ O	9.250	mg
FeSO ₄ x 7 H ₂ O	99.000	mg
"Metals 44"	50.000	ml
Distilled water	950.000	ml

1. Dissolve the nitrilotriacetic acid.
2. Adjust pH to 7.0 with KOH (~7.3 g).
3. Dissolve other salts separately and combine.
4. Adjust pH to 6.8 with NaOH or H₂SO₄.

"Metals 44" (from medium 590)

Na-EDTA	250.00	mg
ZnSO ₄ x 7 H ₂ O	1095.00	mg
FeSO ₄ x 7 H ₂ O	500.00	mg
MnSO ₄ x H ₂ O	154.00	mg
CuSO ₄ x 5 H ₂ O	39.20	mg
Co(NO ₃) ₂ x 6 H ₂ O	24.80	mg
Na ₂ B ₄ O ₇ x 10 H ₂ O	17.70	mg
Distilled water	1000.00	ml

Dissolve the EDTA and add a few drops of concentrated H₂SO₄ to retard precipitation of the heavy metal ions.