

1367. TELMATOCOLA MEDIUM

Mineral Salts Solution:

KH ₂ PO ₄	0.10	g
(NH ₄) ₂ SO ₄	0.10	g
MgSO ₄ x 7 H ₂ O	0.10	g
CaCl ₂ x 2 H ₂ O	0.02	g
Hutner's basal salts (see below)	1.00	ml
Vitamin solution (see medium 621)(see below)	1.00	ml
Yeast Extract	0.10	g
Glucose	0.10	g
Distilled Water	1000.00	ml

Prepare the liquid medium without Staley's vitamin solution and glucose. Adjust to pH 4.8 - 5.5. Dispense the medium into serum bottles. The gas phase is air:CO₂ (95:5) and the liquid:gas phase should be 1:9. Sterilize by autoclaving. After autoclaving add the Staley's vitamin solution (filter sterilised) and glucose (autoclaved) from sterile stock solutions.

Hutner's basal salts:

Nitritotriacetic acid (NTA)	10.000	g
MgSO ₄ x 7 H ₂ O	29.700	g
CaCl ₂ x 2 H ₂ O	3.335	g
(NH ₄) ₆ MoO 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

Dissolve the nitritotriacetic acid, adjust the pH to 7.0 with KOH (about 7.3 g). Dissolve other salts separately, combine and adjust the pH to 6.8 with NaOH or H₂SO₄.

"Metals 44":

Na-EDTA	250.000	mg
ZnSO ₄ x 7 H ₂ O	1095.000	mg
FeSO ₄ x 7 H ₂ O	500.000	mg
MnSO ₄ x H ₂ O	154.000	mg
CuSO ₄ x 5 H ₂ O	39.200	mg
Co(NO ₃) ₂ x 6 H ₂ O	24.800	mg
Na ₂ B ₄ O ₇ x 10 H ₂ O	17.700	mg
Distilled water	1000.000	ml

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

Vitamin solution:

Biotin	4.00	mg
Folic acid	4.00	mg
Pyridoxine-HCl	20.00	mg
Riboflavine	10.00	mg
Thiamine-HCl x 2 H ₂ O	10.00	mg
Nicotinamide	10.00	mg
D-Ca-pantothenate	10.00	mg
Vitamin B ₁₂	0.20	mg
p-Aminobenzoic acid	10.00	mg
Distilled water	1000.00	ml
Filter-sterilized.		