

1404. MEDIUM FOR STRAIN 2M70-1

Mineral Salts Solution:

HEPES (10M)	2.38	g
NaCl	30.00	g
MgSO ₄ x 7 H ₂ O	2.70	g
MgCl ₂ x 6 H ₂ O	4.30	g
NH ₄ Cl	0.25	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.14	g
K ₂ HPO ₄ x 3H ₂ O	0.14	g
Peptone	2.00	g
Yeast Extract	0.20	g
Trace Elements (see below)	1.00	ml
Vitamin Solution DSM 141 (see below)	10.00	ml
Fe(NH ₄) ₂ (SO ₄) ₂ x 6 H ₂ O (2% v/v)	1.00	ml
Distilled Water	1000.00	ml

Trace Element Solution:

Na ₂ EDTA	29.00	g
MnSO ₄ x H ₂ O	3.26	g
CoCl ₂ x 6 H ₂ O	1.80	g
ZnSO ₄ 7 H ₂ O	1.00	g
NiSO ₄ x 6 H ₂ O	0.11	g
CuSO ₄ x 5H ₂ O	0.10	g
H ₃ BO ₃	0.10	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.10	g
Na ₂ MoO ₄ x 2 H ₂ O	0.10	g
Na ₂ WO ₄ x 2 H ₂ O	0.10	g
Na ₂ SeO ₃	0.05	g
Distilled Water	1000.00	ml

Dissolve Na₂EDTA x 2 H₂O and adjust pH 8.0 with KOH before adding the minerals to the solution.

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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

Prepare the medium without the vitamin solution. Adjust to pH 7.25. Dispense the medium into Hungate tubes or serum bottles. Sterilize by autoclaving. Before inoculation add the sterile vitamin solution.