

1425. SSE/HD 1:10 MEDIUM (HEPES)

Peptone	0.50	g
Yeast extract	0.25	g
Glucose	0.10	g
HEPES (10 mM final concentration)	1.95	g
SSE (double concentrated) (see below)	500.00	ml
Trace Element Solution SL-10 (see below)	1.0	ml
Distilled water	500.00	ml
adjust pH to 7.0		

Add to 1000 ml of medium after autoclaving:

Vitamin Solution (see below)	1.0	ml
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SSE (double concentrated):

CaCl ₂ x 2 H ₂ O	0.2938	g
NH ₄ Cl	0.1069	g
MgCl ₂ x 6 H ₂ O	0.2036	g
(NH ₄) ₂ SO ₄	0.1983	g
MgSO ₄ x 7 H ₂ O	0.7390	g
CaSO ₄ x 2 H ₂ O	0.8606	g
Ca(NO ₃) ₂ x 4 H ₂ O	0.2360	g
Na NO ₃	0.4240	g
KH ₂ PO ₄	0.0700	g
FeSO ₄ x 7 H ₂ O	0.0111	g
K ₂ SO ₄	0.0870	g
add distilled water	1000.0000	ml

Dissolve by shaking overnight. Sterilize by autoclaving.

Trace element solution SL-10:

HCl (25%; 7.7 M)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

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First dissolve FeCl_2 in HCl, then dilute with water, add and dissolve the other salts. Finally make up to 1000.0 ml.

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