

1425 Sporomusa Medium

NaCl	2.25	g
MgSO ₄ x 7H ₂ O	0.5	g
NH ₄ Cl	0.5	g
K ₂ HPO ₄	348.0	mg
KH ₂ PO ₄	227.0	mg
CaCl ₂ x 2H ₂ O	25.0	mg
FeSO ₄ x 7H ₂ O	2.0	mg
NaSeO ₃	15.0	ug
Vitamin Solution (see below)	10.0	ml
SL-6 Trace Elements (see below)	3.0	ml
Yeast Extract	2.0	g
Casitone	2.0	g
Resazurin	1.0	mg
8% NaHCO ₃ (see below)	50.0	ml
10% Glycine betaine (see below)	50.0	ml
3% Cysteine HCl (see below)	10.0	ml
DI Water	877.0	ml

Boil medium for 5 minutes and cool in ice to room temperature under a gas stream of 80% N₂ and 20% CO₂. Add sodium bicarbonate solution and sterilize medium anaerobically at 121C, 15 minutes. Add Glycine betaine solution to cooled sterile basal medium. Add cysteine solution at time of inoculation. Final pH of medium is 7.0-7.2.

Vitamin Solution:

Biotin	2.0	mg
Folic Acid	2.0	mg
Pyridoxine HCl	10.0	mg
Thiamine HCl	5.0	mg
Riboflavin	5.0	mg
Nicotinic Acid	5.0	mg
DL-Calcium Pantothenate	5.0	mg
Vitamin B ₁₂	0.1	mg
p-Aminobenzoic Acid	5.0	mg
Lipoic Acid	5.0	mg
DI Water	100.0	ml

SL-6:

ZnSO ₄ x 7H ₂ O	0.1	g
MnCl ₂ x 4H ₂ O	0.03	g
H ₃ BO ₃	0.3	g
CoCl ₂ x 6H ₂ O	0.2	g
CuCl ₂ x 2H ₂ O	0.01	g
NiCl ₂ x 6H ₂ O	0.02	g
Na ₂ MoO ₄ x H ₂ O	0.03	g
DI Water	1.0	L

Adjust final pH of Trace Elements Solution to 3.4.

8% NaHCO₃:

Freshly prepared, gassed under 80% N₂ and 20% CO₂ for 20 minutes and added to partially reduced (boiled) basal medium to yield a final concentration of 0.4%.

10% Glycine betaine:

Filter sterilized, gassed under same gas as above and aseptically added to sterile, partially reduced medium to yield a final concentration of 0.5% substrate.

3% Cysteine HCl:

Freshly prepared, filter sterilized, gassed under same gas as above and added aseptically to sterile medium at time of inoculation to yield a final concentration of 0.03% reducing agent.