

1689. MEDIUM for SM250

MgCl ₂ x 6 H ₂ O	0.330 g
NH ₄ Cl	0.330 g
KCl	0.330 g
CaCl ₂ x 2 H ₂ O	0.033 g
KH ₂ PO ₄	0.165 g
NaCl	10.000 g
Trace elements (see below)	1.00 ml
Distilled water	1000.00 ml
Boil the medium for 5 min and cool on ice under N ₂ (100%). Do not bubble.	
NaHCO ₃	2.000 g
pH Wert 7.6-8.0.	

Fill 10 ml in Hungate tubes with a rubber septum under N₂ (100%) flux.

Flush each Hungate tube with molecular hydrogen for 10 seconds.

Autoclave at 121° for 15 min. After autoclaving add 0.01 ml of filter-sterilized vitamin solution per 10 ml media.

Inject 3 ml of sterile air with sterile syringe into each Hungate tube before inoculation.

Trace elements solution (mg/l):

(NH ₄) ₂ SO ₄ *FeSO ₄ *6H ₂ O,	784	mg
NiCl ₂ *2H ₂ O	284	mg
CoCl ₂ *6H ₂ O	28	mg
NiCl ₂ *2H ₂ O	166	mg
MnCl ₂ *4H ₂ O	99	mg
ZnSO ₄ *7H ₂ O	144	mg
Na ₂ SeO ₄	95	mg
Na ₂ WO ₄ *2H ₂ O	33	mg
Na ₂ MoO ₄ *2H ₂ O	24	mg
H ₃ BO ₃	6	mg
CuCl ₂ *2H ₂ O	2	mg

Vitamins solution (mg /l): (to be added 1 ml/l)

Biotin	20	mg
Folic acid	20	mg
Piridoxin hydrochloride (B6)	100	mg
Riboflavine (B2)	50	mg
Thiamine (B1)	50	mg
Nicotinic acid (PP)	50	mg
Pantothenic acid	50	mg
Cobalamin (B12)	1	mg
p-Aminobenzoic acid	50	mg
Lipoic acid	50	mg