

60. MOORELLA MEDIUM

Solution A:

MgSO ₄ x 7 H ₂ O	0.10	g
(NH ₄) ₂ SO ₄	0.50	g
Fe(NH ₄) ₂ (SO ₄) ₂	0.04	g
Na ₂ MoO ₄ x 2 H ₂ O solution (0.1% w/v)	2.40	ml
Na ₂ SeO ₃ x 5 H ₂ O solution (0.1% w/v)	0.15	ml
Tryptone	5.00	g
Yeast extract	5.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	840.00	ml

Solution B:

K ₂ HPO ₄	7.00	g
KH ₂ PO ₄	4.50	g
Distilled water	50.00	ml

Solution C:

Glucose	18.00	g
Distilled water	50.00	ml

Solution D:

Na ₂ CO ₃	2.00	g
Distilled water	40.00	ml

Solution E:

L-Cysteine-HCl x H ₂ O	0.30	g
Distilled water	10.00	ml

Solution F:

Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	10.00	ml

Sparge *solution A* with 100% CO₂ gas for 30 – 45 min to make it anoxic, then distribute under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Autoclave separately *solutions B, C, E* and *F* under 100% N₂ gas, and *solution D* under 80% N₂ and 20% CO₂ gas atmosphere. To complete the medium appropriate amounts of *solutions B* to *F* are added to the sterile *solution A* in the sequence as indicated. Adjust pH of the complete medium to 6.9, if necessary.