

527. MOORELLA THERMOACETICA (G-20) MEDIUM

Solution A:

Yeast extract (BD Bacto)	5.00	g
Tryptone peptone (BD Bacto)	5.00	g
Pyruvic acid	1.80	g
(NH ₄) ₂ SO ₄	1.00	g
MgSO ₄ x 7 H ₂ O	0.25	g
Fe(NH ₄) ₂ (SO ₄) ₂ x 6 H ₂ O	0.04	g
Co(NO ₃) ₂ x 6 H ₂ O	0.03	g
Na ₂ WO ₄ x 2 H ₂ O solution (0.1% w/v)	3.30	ml
Na ₂ MoO ₄ x 2 H ₂ O solution (0.1% w/v)	2.40	ml
ZnCl ₂ solution (0.1% w/v)	1.40	ml
Na ₂ SeO ₃ x 5 H ₂ O solution (0.1% w/v)	0.30	ml
NiCl ₂ x 6 H ₂ O solution (0.1% w/v)	0.20	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Distilled water	600.00	ml

Solution B:

NaHCO ₃	16.80	g
K ₂ HPO ₄	7.00	g
KH ₂ PO ₄	5.50	g
Distilled water	300.00	ml

Solution C:

D-Glucose	20.00	g
Distilled water	100.00	ml

Solution D:

L-Cysteine-HCl x H ₂ O	0.25	g
Distilled water	5.00	ml

Solution E:

Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	5.00	ml

Sparge *solution A* with 100% CO₂ gas for 30 – 45 min to make it anoxic, dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave.

Solution B is autoclaved under 80% N₂ and 20% CO₂ gas mixture. *Solutions C, D* and *E* are autoclaved under 100% N₂ gas atmosphere. To complete the medium appropriate amounts of *solutions B* to *E* are added to the sterile *solution A* in the sequence as indicated. Adjust pH of complete medium to 6.9, if necessary