

289. RUMINICLOSTRIDIUM POPYROSOLVENS MEDIUM

Sea water, filtered	200.00	ml
Mineral salt solution (see below)	150.00	ml
NH ₄ Cl	1.00	g
Yeast extract	0.60	g
K ₂ HPO ₄	1.65	g
Na-resazurin solution (0.1% w/v)	0.50	ml
L-Cysteine-HCl x H ₂ O	0.50	g
Cellobiose	5.00	g
Distilled water	650.00	ml

Dissolve ingredients (except cysteine and cellobiose) and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add cysteine, adjust pH to 7.2 and dispense under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add cellobiose from an anoxic stock solution sterilized by filtration.

Note: Some strains can be adapted to cellulose as substrate using 5.0 g/l cellulose (Lens tissue, OXOID; or cellulose powder MN 301, MACHEREY-NAGEL). If necessary adjust pH of completed medium to 7.2.

Mineral salt solution:

(NH ₄) ₂ SO ₄	6.00	g
NaCl	6.00	g
MgSO ₄ x 7 H ₂ O	1.20	g
CaCl ₂ x 2 H ₂ O	0.80	g
Distilled water	1000.00	ml