

557. CLOSTRIDIUM SP. MEDIUM (CREATININE)

CaSO ₄ x 2 H ₂ O	0.05	g
MgSO ₄ x 7 H ₂ O	0.50	g
FeSO ₄ x 7 H ₂ O	0.01	g
MnCl ₂ x 4 H ₂ O	0.06	g
NaCl	1.00	g
Trace element solution SL-11 (see medium 722)	1.00	ml
Selenite-tungstate-solution (see medium 385)	1.00	ml
Yeast extract	5.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
KH ₂ PO ₄	2.64	g
K ₂ HPO ₄	5.33	g
NaHCO ₃	1.00	g
Creatinine	5.50	g
Vitamin solution (see medium 141)	10.00	ml
L-Cysteine-HCl x H ₂ O	0.50	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	980.00	ml

Dissolve ingredients except hydrogenphosphates, bicarbonate, creatinine, vitamins, cysteine and sulfide, adjust pH to 7.0 and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Complete medium by adding hydrogenphosphates, creatinine, vitamins, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas atmosphere and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Stock solutions of creatinine (5% w/v) and vitamins should be sterilized by filtration. Adjust pH of complete medium to 7.0, if necessary.

For [DSM 6877](#) replace creatinine with 6.80 g/l N-methylhydantoin (SIGMA) as substrate.