

1490. DESULFOHALOTOMACULUM PECKII MEDIUM

NaCl	20.0	g
NH ₄ Cl	1.0	g
K ₂ HPO ₄	0.3	g
KH ₂ PO ₄	0.3	g
KCl	0.1	g
Na ₂ SO ₄	2.0	g
CaCl ₂ x 2 H ₂ O	0.1	g
Trace elements solution SL-10 (see medium 320)	1.0	ml
Yeast extract	2.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
Na ₂ CO ₃	1.5	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	3.0	g
MgCl ₂ x 6 H ₂ O	3.0	g
L-Cysteine-HCl x H ₂ O	0.5	g
Na ₂ S x 9 H ₂ O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients (except carbonate, thiosulfate, magnesium chloride, cysteine and sulfide), then sparge medium with 80% H₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials to 30% of their volume and autoclave. Add magnesium chloride, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Adjust pH of the complete medium to 6.8 - 7.0, if necessary. After inoculation pressurize cultivation vials to 1 bar overpressure with sterile 80% H₂ and 20% CO₂ gas mixture.