

1456. DESULFOSOMA MEDIUM

K ₂ HPO ₄	0.30	g
KH ₂ PO ₄	0.30	g
NaCl	1.00	g
NH ₄ Cl	1.00	g
KCl	0.10	g
CaCl ₂ x 2 H ₂ O	0.10	g
MgCl ₂ x 6 H ₂ O	0.50	g
Na ₂ SO ₄	2.80	g
Yeast extract (OXOID)	1.00	g
Trypticase peptone (BD BBL)	1.00	g
Trace elements solution SL-10 (see medium 320)	1.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Na-pyruvate	2.50	g
L-Cysteine-HCl x H ₂ O	0.50	g
Na ₂ S x 9 H ₂ O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, pyruvate, cysteine and sulfide, then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add pyruvate (sterilized by filtration), 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. Prior to use adjust pH of complete medium to 7.0 - 7.2, if necessary.