

717. DESULFITOBACTERIUM (PCE) MEDIUM

(NH ₄)H ₂ PO ₄	2.88	g
MgSO ₄ x 7 H ₂ O	0.10	g
Ca(NO ₃) ₂ x 4 H ₂ O	0.05	g
Trace element solution (see medium 141)	10.00	ml
Yeast extract	0.10	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.50	g
Na-L-lactate	5.00	g
Na ₂ -fumarate	3.20	g
Vitamin solution (see medium 141)	9.00	ml
Vitamin solution (see medium 503)	1.00	ml
Na ₂ S x 9 H ₂ O	0.10	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, lactate, fumarate, vitamins and sulfide. Sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add lactate, fumarate, vitamins 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 atmosphere. Stock solutions of fumarate and vitamins should be sterilized by filtration. The pH of the complete medium should be at 7.0 - 7.2.