

**1062. DESULFITOBACTERIUM (PCE II) MEDIUM**

KH <sub>2</sub> PO <sub>4</sub>	0.20	g
NH <sub>4</sub> Cl	0.25	g
NaCl	1.00	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.40	g
KCl	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.15	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na <sub>2</sub> CO <sub>3</sub>	1.50	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	22.00	mg
Vitamin solution (see medium 503)	1.00	ml
Yeast extract	2.00	g
Na-pyruvate	4.50	g
Na <sub>2</sub> -fumarate	6.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, ferrous iron sulfate, vitamins and organic substrates), then sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add ferrous iron sulfate (dissolved in 0.1 N H<sub>2</sub>SO<sub>4</sub>), vitamins, pyruvate, fumarate and yeast extract from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas and carbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas atmosphere. Stock solutions of ferrous iron sulfate, vitamins, pyruvate and fumarate should be sterilized by filtration. Adjust pH of the complete medium to 7.5, if necessary.

*Note: Addition of 10 - 20 mg sodium dithionite per litre (e.g. from 5% (w/v) solution, freshly prepared under N<sub>2</sub> and filter-sterilized) may stimulate growth at the beginning.*