

318a. PELOBACTER (FUF) MEDIUM

HEPES (SIGMA)	11.92	g
KH ₂ PO ₄	0.30	g
NaCl	0.60	g
MgCl ₂ x 6 H ₂ O	0.10	g
CaCl ₂ x 2 H ₂ O	0.08	g
Trace element solution (see medium 318)	10.00	ml
NH ₄ Cl	1.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
KHCO ₃	2.00	g
Vitamin solution (see medium 141)	10.00	ml
2-Furoic acid (SIGMA)	2.24	g
L-Cysteine-HCl x H ₂ O	0.30	g
Na ₂ S x 9 H ₂ O	0.30	g
Distilled water	1000.00	ml

Dissolve ingredients except bicarbonate, vitamins, furoic acid, cysteine and sulfide and adjust pH of solution to 7.0. 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 furoic acid (stock solution neutralized with NaOH), cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate 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.