

838. GEOBACTER PELOPHILUS MEDIUM

Fe(III)-citrate (19% Fe)	10.00	g
KH ₂ PO ₄	0.60	g
NH ₄ Cl	0.30	g
MgSO ₄ x 7 H ₂ O	0.50	g
CaCl ₂ x 2 H ₂ O	0.10	g
Trace element solution SL-11 (see medium 722)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
NaHCO ₃	3.50	g
Na-acetate	0.80	g
Na-ascorbate	0.80	g
Distilled water	1000.00	ml

First dissolve ferric citrate by heating the water under continuous stirring. After cooling to room temperature adjust the pH to 6.0, then add and dissolve the remaining ingredients, except bicarbonate, acetate and ascorbate. Sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic, then dispense under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add acetate and ascorbate 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 inoculation check the medium pH and adjust to 6.8, if necessary.

For [DSM 9736](#) supplement medium with 1.00 g/l NaCl. After autoclaving supplement medium with 1.00 ml/l of a vitamin solution (see medium 503) and replace Na-ascorbate with 0.15 g/ of L-cysteine-HCl x H₂O added from a sterile anoxic stock solution prepared under 100% N₂ gas.

For [DSM 15288](#) and [DSM 16228](#) omit Na-acetate and Na-ascorbate. Supplement medium after autoclaving with 10.00 ml/l of a vitamin solution (see medium 141), 1.00 g/l Na-DL-lactate and 1.00 g/l yeast extract added from sterile anoxic stock solutions prepared under 100% N₂ gas.

For [DSM 16401](#) supplement medium with 20.00 g/l NaCl and omit Na-ascorbate. After autoclaving supplement medium with 10.00 ml/l of a sterile anoxic vitamin solution (see medium 141).

For [DSM 19350](#), [DSM 22248](#) and [DSM 24905](#) prepare medium without Na-ascorbate.