

1579. PYROBACULUM FERRIREDUCTENS MEDIUM

NH ₄ Cl	0.33	g
KCl	0.33	g
KH ₂ PO ₄	0.33	g
MgCl ₂ x 6 H ₂ O	0.33	g
CaCl ₂ x 2 H ₂ O	0.33	g
Trace element solution SL10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Yeast extract	1.00	g
KNO ₃	1.00	g
NaHCO ₃	2.00	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients (except yeast extract, nitrate, bicarbonate and vitamins) and sparge medium with 100% CO₂ gas for at least 30 – 45 min to make it anoxic, then dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add yeast extract, nitrate and vitamins 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 atmosphere. Vitamins should be sterilized by filtration. The pH of the complete medium should be adjusted to 6.5 – 6.8, if necessary.