

664. THERMOTOGA ELFII MEDIUM

NH ₄ Cl	1.0	g
K ₂ HPO ₄	0.3	g
KH ₂ PO ₄	0.3	g
MgCl ₂ x 6 H ₂ O	0.2	g
CaCl ₂ x 2 H ₂ O	0.1	g
KCl	0.1	g
NaCl	10.0	g
Trace element solution (see medium 141)	10.0	ml
Na-acetate	0.5	g
Yeast extract (OXOID)	5.0	g
Trypticase peptone (BD BBL)	5.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
Na ₂ CO ₃	1.5	g
Na ₂ S ₂ O ₃ x 5 H ₂ O	5.0	g
D-Glucose	4.0	g
L-Cysteine-HCl x H ₂ O	0.5	g
Na ₂ S x 9 H ₂ O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients except carbonate, thiosulfate, glucose 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 thiosulfate, glucose, cysteine 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. The pH of the complete medium should be adjusted to 7.5, if necessary.

For [DSM 14385](#) omit Na-acetate and Trypticase peptone and reduce amount of yeast extract to 0.5 g/l. Adjust pH of final medium to 7.0.