

1662. ALKALIPHILUS HYDROTHERMALIS MEDIUM

KH ₂ PO ₄	0.3	g
K ₂ HPO ₄	0.3	g
NH ₄ Cl	0.5	g
KCl	0.1	g
NaCl	5.0	g
MgCl ₂ x 6 H ₂ O	0.5	g
CaCl ₂ x 2 H ₂ O	0.1	g
Yeast extract (OXOID)	5.0	g
Trypticase peptone (BD BBL)	5.0	g
Trace element solution (see medium 141)	10.0	ml
Na ₂ CO ₃	3.0	g
Na-crotonate solution (1 M, see medium 870)	10.0	ml
Na ₂ S x 9 H ₂ O	0.3	g
Distilled water	1000.0	ml

Dissolve ingredients (except carbonate, crotonate and sulfide), adjust pH to 8.5 and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Add crotonate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. The crotonate solution should be sterilized by filtration. Adjust pH of the complete medium to 9.0, if necessary.