

876. DESULFOTHERMUS NAPHTHAE MEDIUM

Na ₂ SO ₄	4.00	g
KH ₂ PO ₄	0.20	g
NH ₄ Cl	0.25	g
NaCl	20.00	g
MgCl ₂ x 6 H ₂ O	9.80	g
KCl	0.50	g
CaCl ₂ x 2 H ₂ O	0.10	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	2.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
Na ₂ CO ₃	1.00	g
Na-caproate	0.50	g
Na-butyrate	0.30	g
Vitamins solution (see medium 141)	9.00	ml
Vitamins solution (see medium 503)	1.00	ml
Na ₂ S x 9 H ₂ O	0.40	g
Distilled water	1000.00	ml

Dissolve all ingredients except carbonate, caproate, butyrate, vitamins and sulfide, then sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add caproate, butyrate, vitamins 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. Vitamins should be sterilized by filtration. Adjust pH of complete medium to 6.7 - 6.9, if necessary.

Note: Growth can be stimulated by supplementing the medium with 1% (v/v) of fatty acid mixture (see medium 119).