

479a. METHANOHALOPHILUS PROFUNDI MEDIUM

NaCl	120.00	g
KCl	1.50	g
MgCl ₂ x 6 H ₂ O	6.00	g
CaCl ₂ x 2 H ₂ O	0.40	g
NH ₄ Cl	1.00	g
K ₂ HPO ₄ x 3 H ₂ O	0.40	g
Trace element solution (see medium 141)	10.00	ml
Yeast extract (OXOID)	2.00	g
Trypticase peptone (BD BBL)	2.00	g
HEPES (SIGMA H3375)	5.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
Trimethylamine-HCl	2.00	g
2-Mercaptoethanesulfonic acid (coenzyme M)	0.20	g
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	1000.00	ml

Dissolve ingredients except trimethylamine, coenzyme M and sulfide. Adjust pH to 7.5 and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic; then dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add trimethylamine, coenzyme M and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. Adjust pH of complete medium to 7.5, if necessary.