

534. MODIFIED SME MEDIUM

NaCl	30.00	g
MgSO ₄ x 7 H ₂ O	7.00	g
MgCl ₂ x 6 H ₂ O	5.50	g
KCl	0.65	g
NaBr	0.10	g
NH ₄ Cl	0.15	g
K ₂ HPO ₄	0.15	g
CaCl ₂ x 2 H ₂ O	0.50	g
Trace element solution(see medium 141)	10.00	ml
Distilled water	1000.00	ml

Gas with nitrogen gas for about 20 min and then adjust the pH to 6.5 - 6.8 with H₂SO₄. Fill 10 ml of medium in serum bottles (100 ml) under a protective CO₂ atmosphere and tightly stopper and autoclave at 121°C for 15 min. Add 0,3 ml filter-sterilised solution A (gassed with N₂) and sterile solution B (gassed with CO₂) in 10 ml medium . Exchange the gas phase by a mixture of H₂ : CO₂ : O₂ (300 KPa; each mixture 79.75 : 19.75 : 0.5 by volume). For more details see the original description (Huber et al. System. Appl. Microbiol. 15:340-351 (1992)).

Solution A:

NaHCO ₃	2,0	g
Distilled water	30	ml

prepared under CO₂ in an ice-bath, filter-sterilise

Solution B:

Na ₂ S ₂ O ₃ X5H ₂ O	2,0	g
Distilled water	30	ml

Prepared under N₂, autoclave 121°C, 15 min

Trace element solution:

To 1000.0 ml trace element solution in medium 141 add:

(NH ₄) ₂ Ni(SO ₄) ₂	2.00	g
Na ₂ WO ₄	10.00	mg
Na ₂ SeO ₄	10.00	mg