

124. DESULFOTOMACULUM ACETOXIDANS MEDIUM

NaCl	1.17	g
MgCl ₂ x 6 H ₂ O	0.40	g
KCl	0.30	g
CaCl ₂ x 2 H ₂ O	0.15	g
NH ₄ Cl	0.27	g
KH ₂ PO ₄	0.20	g
Na ₂ SO ₄	2.84	g
Trace element solution SL-10 (see medium 320)	1.00	ml
Selenite-tungstate solution (see medium 385)	1.00	ml
Na-acetate	1.40	g
Na-butyrate	1.40	g
Yeast extract	1.00	g
Na-resazurin solution (0.1% w/v)	0.50	ml
NaHCO ₃	4.50	g
Vitamin solution (see medium 141)	10.00	ml
Na ₂ S x 9 H ₂ O	0.40	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, vitamins, and sulfide) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add and dissolve bicarbonate, then dispense medium under 80% N₂ and 20% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas. The vitamin solution should be sterilized by filtration. Prior to use check pH of complete medium and adjust to 7.0 - 7.2, if necessary.

For [DSM 2925](#) replace acetate and butyrate with 1.00 g/l ethanol added from a sterile anoxic stock solution after autoclaving.

For [DSM 7213](#) replace acetate and butyrate with 0.60 g/l Na-benzoate added from a sterile anoxic stock solution after autoclaving.