

815. DESULFOHALOTOMACULUM MEDIUM

Na ₂ SO ₄	3.0	g
CaCl ₂ x 2 H ₂ O	6.0	g
NaCl	40.0	g
KCl	2.0	g
NH ₄ Cl	0.3	g
KH ₂ PO ₄	0.2	g
MgCl ₂ x 6 H ₂ O	8.0	g
SrCl ₂ x 6 H ₂ O	0.1	g
Trace element solution SL-11 (see medium 722)	1.0	ml
MOPS	3.0	g
Yeast extract	1.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
Iron powder (or nails)	100.0	g
Na-L-lactate	3.6	g
NaHCO ₃	4.0	g
Distilled water	1000.0	ml

Dissolve ingredients except iron, lactate and bicarbonate, adjust pH to 6.0 with NaOH and sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials containing 1 – 2 g iron powder or an iron nail. Autoclave for 30 min at 105°C. Before use add lactate from a sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas atmosphere. Final medium pH should be 7.2.