

815a. DESULFOCELLA HALOPHILA 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
Na-pyruvate	2.5	g
NaHCO ₃	4.0	g
Na ₂ S x 9 H ₂ O	0.1	g
Distilled water	1000.0	ml

Dissolve ingredients except pyruvate, bicarbonate and sulfide, adjust pH to 6.0 with NaOH and sparge medium for 30 – 45 min with 100% N₂ gas to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Before use add pyruvate (sterilized by filtration) and sulfide from 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.

Note: Prior to inoculation 10-20 mg/l sodium dithionite (added from a 5% w/v solution freshly prepared under N₂ and filter-sterilized) can be added to the medium to stimulate growth at the beginning.