

722. DESULFOVIBRIO GABONENSIS MEDIUM

Na ₂ SO ₄	3.0	g
KCl	0.3	g
NH ₄ Cl	0.3	g
KH ₂ PO ₄	0.2	g
CaCl ₂ x 2 H ₂ O	0.1	g
NaCl	50.0	g
MgCl ₂ x 6 H ₂ O	3.3	g
MgSO ₄ x 7 H ₂ O	1.6	g
Yeast extract	0.1	g
Trace element solution SL-11 (see below)	1.0	ml
Na-resazurin solution (0.1% w/v)	0.5	ml
NaHCO ₃	2.5	g
Na-DL-lactate	2.5	g
Vitamin solution (see medium 503)	1.0	ml
Na ₂ S x 9 H ₂ O	0.2	g
Distilled water	1000.0	ml

Dissolve ingredients except bicarbonate, lactate, vitamins and sulfide. Sparge medium with 80% N₂ and 20% CO₂ gas mixture 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 lactate, vitamins 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. Vitamins should be sterilized by filtration. The pH of the complete medium should be 7.0 - 7.2.

Trace element solution SL-11:

Na ₂ -EDTA x 2 H ₂ O	5.20	g
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	1000.00	ml

Dissolve EDTA in 800 ml distilled water, adjust pH to 7 using 2 N NaOH and add ferrous chloride. After ferrous chloride has dissolved add other compounds. Finally adjust pH to 6.0 and bring volume to 1000 ml.