722: OCEANIDESULFOVIBRIO MEDIUM

Na_2SO_4	3.00	g
KCl	0.30	g
NH_4Cl	0.30	g
KH_2PO_4	0.20	g
$CaCl_2$ x 2 H_2O	0.10	g
NaCl	50.00	g
$MgCl_2$ x 6 H_2O	3.30	g
$MgSO_4$ x 7 H_2O	1.60	g
Yeast extract	0.10	g
Trace element solution SL-11	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Na_2CO_3	1.50	g
Na-DL-lactate	2.50	g
Seven vitamins solution	1.00	ml
Na_2S x 9 H_2O	0.20	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonate, lactate, vitamins and sulfide. Sparge medium with 80% N_2 and 20% CO_2 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% N_2 gas and carbonate from a sterile anoxic stock solution prepared under 80% N_2 and 20% CO_2 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 (from medium 722)

Na_2-EDTA x 2 H_2O	5.20	g
$FeCl_2$ x 4 H_2O	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2$ x 4 H_2O	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2$ x 6 H_2O	190.00	mg
$CuCl_2$ x 2 H_2O	2.00	mg
$NiCl_2$ x 6 H_2O	24.00	mg
Na_2MoO_4 x 2 H_2O	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.

Seven vitamins solution (from medium 503)

Vitamin B_{12}	100.00	mg
p-Aminobenzoic acid	80.00	mg
D-(+)-biotin	20.00	mg
Nicotinic acid	200.00	mg
Calcium pantothenate	100.00	mg
Pyridoxine hydrochloride	300.00	mg
Thiamine-HCl x 2 H_2O	200.00	mg
Distilled water	1000.00	ml