1101a: DESULFONATRONUM ZHILINAE MEDIUM

NaCl	25.00	g
K_2HPO_4	0.50	g
Yeast extract	0.20	g
Na_2SO_4	3.00	g
$NaHCO_3$	1.85	g
Na_2CO_3	1.20	g
$MgCl_2$ x 6 H_2O	0.10	g
Trace elements solution (Pfennig & Lippert,1966)	1.00	ml
Selenite-tungstate solution	1.00	ml
Na-L-lactate	2.20	g
Seven vitamins solution	1.00	ml
Na_2S x 9 H_2O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients except carbonates, magnesium chloride, trace elements, lactate, vitamins and sulfide, then sparge medium with 100% N_2 gas for 30 - 45 min to make it anoxic. Then add and dissolve carbonates, adjust pH to 9.0, dispense under 100% N_2 gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add magnesium chloride, trace elements, lactate, vitamins and sulfide from sterile anoxic stock solution prepared under 100% N_2 gas. The vitamin solution should be sterilized by filtration. Adjust pH of complete medium to 9.0 - 9.5, if necessary.

Trace elements solution (Pfennig & Lippert,1966) (from medium 1369)

EDTA	5.00	g
$FeSO_4$ x 7 H_2O	2.20	g
$ZnSO_4$ x 7 H_2O	0.10	g
$MnCl_2$ x 4 H_2O	0.03	g
H_3BO_3	0.03	g
$CoCl_2$ x 6 H_2O	0.20	g
$CuCl_2$ x 2 H_2O	0.03	g
$NiCl_2$ x 6 H_2O	0.03	g
Na_2MoO_4 x 2 H_2O	0.03	g
Distilled water	1000.00	ml

pH 3.0-4.0

Selenite-tungstate solution (from medium 385)

NaOH	0.50	g
Na_2SeO_3 x 5 H_2O	3.00	mg
Na_2WO_4 x 2 H_2O	4.00	mg

Distilled water	1000.00	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