1101: DESULFONATRONOSPIRA MEDIUM

Final pH: 10.0
Final volume: 1003 ml

NaCl	15.00	g
K_2HPO_4	0.50	g
$NaHCO_3$	15.00	g
Na_2CO_3	95.00	g
NH_4Cl	0.20	g
$MgCl_2$ x 6 H_2O	0.20	g
Trace elements solution (Pfennig, 1965)	1.00	ml
Selenite-tungstate solution	1.00	ml
Yeast extract	0.05	g
Na-L-lactate	2.20	g
Na_2SO_3	1.30	g
Wolin's vitamin solution (10x)	1.00	ml
Na_2S x 9 H_2O	0.24	g
Distilled water	1000.00	ml

Dissolve sodium chloride and hydrogenphospate, then sparge solution with 100% N_2 gas for 30 -45 min to make it anoxic. Add and dissolve carbonates, adjust pH to 10, dispense under 100% N_2 gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add ammonium chloride, magnesium chloride, trace elements, yeast extract, lactate, sulfite, vitamins, and sulfide from sterile anoxic stock solution prepared under 100% N_2 gas. Stock solutions of sulfite (freshly prepared) and vitamins should be sterilized by filtration.

For DSM 19491: Replace sulfite with 5.00 g/l sodium thiosulfate and lactate with 2.20 g/l sodium pyruvate.

For DSM 100427: Replace sulfite with 2.80 g/l sodium sulfate and lactate with 0.16 g/l Na -acetate and 3.40 g/l Na-formate.

Trace elements solution (Pfennig, 1965) (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

Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCl	50.00	mg
Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B_{12}	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml