1271: PLEOMORPHOCHAETA MEDIUM

This recipe contains strain-specific modifications for *Spirochaeta psychrophila* DSM 23951 *

Final pH: 7.3 - 7.5
Final volume: 1003 ml

NH_4Cl	0.50	g
KH_2PO_4	0.10	g
NaCl	25.00	g
$MgCl_2$ x 6 H_2O	4.00	g
$CaCl_2$ x 2 H_2O	1.00	g
Yeast extract	1.00	g
~~D-Glucose~~	~~1.70~~	~~g~~
Trace element solution	1.00	ml
Selenite-tungstate solution	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
Na_2CO_3	1.50	g
Wolin's vitamin solution (10x)	1.00	ml
L-Cysteine HCl x H_2O	0.30	g
Na_2S x 9 H_2O	0.30	g
Sucrose	2.00	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonate, vitamins, cysteine and sulfide), then sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add vitamins, cysteine and sulfide from sterile anoxic stock solutions prepared under 100% N_2 gas and carbonate from a sterile stock solution prepared under 80% N_2 and 20% CO_2 gas atmosphere. The vitamin solution should be sterilized by filtration. Adjust pH of the complete medium to 7.3 - 7.5, if necessary.

* Replace glucose with 2.0 g/l sucrose.

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

Trace element solution (from medium 732)

Na_2-EDTA	0.50	g
$FeCl_2$ x 4 H_2O	2.00	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
AlCl3	10.00	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

First dissolve EDTA in distilled water, adjust pH to 7 using 2 N NaOH and add ferrous chloride. After ferrous chloride has dissolved add remaining compounds.

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