1328: DEFLUVIITOGA MEDIUM

This recipe contains strain-specific modifications for *Mesotoga infera* DSM 25546 *

Final pH: 7.0
Final volume: 1001 ml

KH_2PO_4	0.30	g
K_2HPO_4	0.30	g
NH_4Cl	1.00	g
NaCl	1.00	g
KCl	0.10	g
$MgCl_2$ x 6 H_2O	0.50	g
$CaCl_2$ x 2 H_2O	0.10	g
Trace element solution SL-10	1.00	ml
Yeast extract (OXOID)	2.00	g
Sodium resazurin (0.1% w/v)	0.50	ml
Sulfur (powdered)	10.00	g
L-Cysteine HCl x H_2O	0.50	g
~~Trypticase peptone (BD BBL)~~	~~2.00~~	~~g~~
~~Na_2 fumarate~~	~~3.20~~	~~g~~
Na_2CO_3	1.00	g
Na_2S x 9 H_2O	0.50	g
Na acetate	0.20	g
D-Xylose	3.00	g
Distilled water	1000.00	ml

Dissolve ingredients (except sulfur, cysteine, peptone, fumarate, carbonate and sulfide) and sparge medium with 80% N_2 and 20% CO_2 gas mixture for 30 - 45 min to make it anoxic. Add and dissove cysteine, then dispense under 80% N_2 and 20% CO_2 gas atmosphere into anoxic Hungate-type tubes or serum vials containing already the appropriate amount of sulfur and autoclave at 121°C for 20 min. Add peptone, fumarate 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 mixture. Adjust pH of the complete medium to 7.0.

* Omit Trypticase peptone and fumarate. Increase amount of yeast extract to 2.0 g/l, supplement medium with 0.2 g/l Na-acetate and add 3.0 g/l D-xylose after autoclaving from anoxic stock solutions prepared under 100% N_2 gas and sterilized by filtration.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
$FeCl_2$ x 4 H_2O	1.50	g
$ZnCl_2$	70.00	mg

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$MnCl_2$ 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	990.00	ml

First dissolve $FeCl_2$ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

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