

**1328: DEFLUVIITOGA MEDIUM**

KH <sub>2</sub> PO <sub>4</sub>	0.30	g
K <sub>2</sub> HPO <sub>4</sub>	0.30	g
NH <sub>4</sub> Cl	1.00	g
NaCl	1.00	g
KCl	0.10	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.50	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
<b>Trace element solution SL-10</b>	1.00	ml
Yeast extract (OXOID)	1.00	g
Sodium resazurin (0.1% w/v)	0.50	ml
Sulfur (powdered)	10.00	g
L-Cysteine HCl x H <sub>2</sub> O	0.50	g
Trypticase peptone (BD BBL)	2.00	g
Na <sub>2</sub> -fumarate	3.20	g
Na <sub>2</sub> CO <sub>3</sub>	1.00	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except sulfur, cysteine, peptone, fumarate, carbonate and sulfide) and sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 - 45 min to make it anoxic. Add and dissolve cysteine, then dispense under 80% N<sub>2</sub> and 20% CO<sub>2</sub> 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<sub>2</sub> gas and carbonate from a sterile anoxic stock solution prepared under 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture. Adjust pH of the complete medium to 7.0.

For DSM 24444: Omit Trypticase peptone and fumarate. Increase amount of yeast extract to 2.0 g/l and supplement medium with 0.2 g/l Na-acetate and 0.6 g/l DL-lactate added after autoclaving from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas.

For DSM 25546: 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<sub>2</sub> gas and sterilized by filtration.

For DSM 29926: Supplement medium with 6.0 g/l D-glucose added to the medium after autoclaving from a sterile anoxic stock solution prepared under 100% N<sub>2</sub> gas.

**Trace element solution SL-10 (from medium 320)**

HCl (25%)	10.00	ml
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g

## 1328: DEFLUVIITOGA MEDIUM

ZnCl <sub>2</sub>	70.00	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.00	mg
H <sub>3</sub> BO <sub>3</sub>	6.00	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.00	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.00	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl<sub>2</sub> in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.