

1328. DEFLUVIITOGA MEDIUM

KH ₂ PO ₄	0.3	g
K ₂ HPO ₄	0.3	g
NH ₄ Cl	1.0	g
NaCl	1.0	g
KCl	0.1	g
MgCl ₂ x 6 H ₂ O	0.5	g
CaCl ₂ x 2 H ₂ O	0.1	g
Trace element solution SL-10 (see medium 320)	1.0	ml
Yeast extract (OXOID)	1.0	g
Na-resazurin solution (0.1% w/v)	0.5	ml
Sulfur, powdered	10.0	g
L-Cysteine-HCl x H ₂ O	0.5	g
Trypticase peptone (BD BBL)	2.0	g
Na ₂ Fumarate	3.2	g
NaHCO ₃	2.0	g
Na ₂ S x 9 H ₂ O	0.5	g
Distilled water	1000.0	ml

Dissolve ingredients (except sulfur, cysteine, peptone, fumarate, bicarbonate and sulfide) and sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 – 45 min to make it anoxic. Add and dissolve cysteine, then dispense under 80% N₂ and 20% CO₂ gas atmosphere into anoxic Hungate-type tubes or serum vials containing already the appropriate amount of sulfur and autoclave. Add peptone, fumarate and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and bicarbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Adjust pH of the complete medium to 7.0.

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% N₂ 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% N₂ gas.