

1163. KOSMOTOGA OLEARIA MEDIUM

NaCl	30.00	g
PIPES (SIGMA)	6.70	g
KCl	0.33	g
MgCl ₂ x 2 H ₂ O	0.90	g
MgSO ₄ x 7 H ₂ O	1.40	g
NH ₄ Cl	0.25	g
CaCl ₂ x 2 H ₂ O	0.14	g
KH ₂ PO ₄	0.45	g
Yeast extract	5.00	g
Trace element solution (see medium 141)	10.00	ml
Na-resazurin solution (0.1% w/v)	0.50	ml
L-Cysteine-HCl x H ₂ O	0.50	g
Maltose	5.00	g
Vitamin solution (see medium 141)	10.00	ml
Distilled water	1000.00	ml

Dissolve ingredients except cysteine, maltose and vitamins. Sparge medium with 100% N₂ gas for 30 – 45 min to make it anoxic, then add and dissolve cysteine and adjust pH to 6.8 with NaOH. Dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add maltose and vitamins after autoclaving from anoxic stock solutions prepared under 100% N₂ gas and sterilized by filtration.

For [DSM 105848](#) supplement medium with 1.50 g/l Na-thiosulfate added to the autoclaved medium from an anoxic stock solution prepared under 100% N₂ gas and sterilized by filtration.