

1095: NATRANAEROBIUS MEDIUM

This recipe contains strain-specific modifications for *Natranaerobius trueperi* DSM 18760 *

NaCl	100.00	g
KH ₂ PO ₄	0.20	g
MgCl ₂	0.10	g
NH ₄ Cl	0.50	g
Yeast extract (OXOID)	10.00	g
Tryptone (BD Bacto)	10.00	g
Trace element solution SL-10	1.00	ml
Na ₂ CO ₃	68.00	g
NaHCO ₃	38.00	g
L-Cysteine HCl x H ₂ O	0.70	g
Wolin's vitamin solution (10x)	1.00	ml
Sucrose	5.00	g
Distilled water	1000.00	ml

Dissolve ingredients (except carbonates, cysteine, sucrose and vitamins), then sparge medium with 100% N₂ gas for 30 - 45 min to make it anoxic. Add carbonate, hydrogencarbonate and cysteine and adjust pH to 8.5. Dispense medium under 100% N₂ gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add sucrose and vitamins from sterile anoxic stock solutions prepared under 100% N₂ gas and sterilized by filtration.

* Adjust pH of medium to 9.5.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Wolin's vitamin solution (10x) (from medium 120)



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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