

315. BACTEROIDES CELLULOSOLVENS MEDIUM

NH ₄ Cl	0.68	g
K ₂ HPO ₄	0.30	g
KH ₂ PO ₄	0.18	g
(NH ₄) ₂ SO ₄	0.15	g
MgSO ₄ x 7 H ₂ O	0.12	g
CaCl ₂ x 2 H ₂ O	0.06	g
FeSO ₄ x 7 H ₂ O	0.02	g
Trace element solution (see below)	10.00	ml
Vitamin solution (see below)	10.00	ml
Cellobiose	5.00	g
or Cellulose (i.e. MN 300)	5.00	g
Resazurin	1.00	mg
NaHCO ₃	2.00	g
Cysteine-HCl x H ₂ O	0.25	g
Na ₂ S x 9 H ₂ O	0.25	g
Distilled water	1000.00	ml

Adjust pH to 7.0. Gas atmosphere: 80% N₂ + 20% CO₂.
Filter sterilize cellobiose separately.

Trace element solution:

Nitrilotriacetic acid	1.500	g
MgSO ₄ x 7 H ₂ O	3.000	g
MnSO ₄ x H ₂ O	0.500	g
NaCl	1.000	g
FeSO ₄ x 7 H ₂ O	0.100	g
CoSO ₄ x 7 H ₂ O	0.180	g
CaCl ₂ x 2 H ₂ O	0.100	g
ZnSO ₄ x 7 H ₂ O	0.180	g
CuSO ₄ x 5 H ₂ O	0.010	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.020	g
H ₃ BO ₃	0.010	g
Na ₂ MoO ₄ x 2 H ₂ O	0.010	g
NiCl ₂ x 6 H ₂ O	0.025	g
Na ₂ SeO ₃ x 5 H ₂ O	0.300	mg
Distilled water	1000.000	ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Final pH 7.0 (with KOH).

Vitamin solution:

Biotin	2.000	mg
Folic acid	2.000	mg
Pyridoxine-HCl	10.000	mg
Thiamine-HCl x 2 H ₂ O	5.000	mg
Riboflavin	5.000	mg
Nicotinic acid	5.000	mg
D-Ca-pantothenate	5.000	mg
Vitamin B ₁₂	0.100	mg
p-Aminobenzoic acid	5.000	mg
Lipoic acid	5.000	mg
Distilled water	1000.000	ml