



197: JCM MEDIUM No. 197

Final pH: 7.0

Final volume: 1000 ml

KH ₂ PO ₄	0.75	g
K ₂ HPO ₄	0.75	g
MgCl ₂ x 6 H ₂ O	0.36	g
NH ₄ Cl	1.00	g
Yeast extract (BD-Difco)	0.10	g
Polypeptone (Nihon Pharm. Co.)	0.10	g
Sodium acetate	2.50	g
Trimethylamine-HCl	8.00	g
Trace mineral solution	9.00	ml
Trace vitamins	10.00	ml
NaHCO ₃	0.80	g
Na ₂ S x 9 H ₂ O	0.50	g
L-Cysteine HCl x H ₂ O	0.50	g
Resazurin	1.00	mg
Distilled water	981.00	ml

Mix ingredients except NaHCO₃, Trace vitamins, Na₂S x 9H₂O and cysteine x HCl x H₂O, and autoclave under a N₂-CO₂ (80:20) atmosphere. Filter-sterilize NaHCO₃ as an 8% solution and Trace vitamins while gassing with N₂. Separately autoclave Na₂S x 9H₂O and cysteine x HCl x H₂O as 5% solutions under a N₂ atmosphere. Aseptically and anaerobically add NaHCO₃ and Trace vitamins to the medium under a N₂-CO₂ (80:20) atmosphere. Prior to inoculation, add the sterile Na₂S x 9H₂O and cysteine x HCl x H₂O solutions, and adjust pH to 6.8.

Trace vitamins

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine hydrochloride	10.00	mg
Thiamine HCl	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
Calcium pantothenate	5.00	mg
Vitamin B ₁₂	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml



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Trace mineral solution

Nitrilotriacetic acid	4.500	g
FeCl ₂ x 4 H ₂ O	0.400	g
MnCl ₂ x 4 H ₂ O	0.100	g
CoCl ₂ x 6 H ₂ O	0.170	g
ZnCl ₂	0.100	g
CaCl ₂ x 2 H ₂ O	0.020	g
H ₃ BO ₃	0.019	g
Na ₂ MoO ₄ x 2 H ₂ O	0.010	g
NiCl ₂ x 6 H ₂ O	0.030	g
Distilled water	1000.000	ml

Adjust pH to 7.0 with 1 N KOH.