

1397. GS MEDIUM

KCl	0.355	g
KH ₂ PO ₄	0.140	g
NH ₄ Cl	0.250	g
MgCl ₂ × 6 H ₂ O	4.000	g
MgSO ₄ × 7 H ₂ O	3.450	g
CaCl ₂ × 2 H ₂ O	0.140	g
NaCl	6.000	g
NaHCO ₃	5.000	g
Fe(NH ₄) ₂ (SO ₄) ₂ × 6 H ₂ O	2.000	mg
Bacto Yeast extract (Difco)	2.000	g
Trypticase Peptone (BBL)	2.000	g
Glucose	1.800	g
Resazurin	1.000	mg
Na ₂ S-cysteine solution (see below)	10.00	ml
Trace elements (see below)	10.00	ml
Vitamin solution (see below)	10.00	ml
Distilled water	1000.00	ml

pH 7.0

Prepare medium except vitamin solution, NaHCO₃ und Na₂S-cysteine solution under N₂/CO₂ gas. Add vitamin solution (filter sterilized), NaHCO₃ (filter sterilized) and Na₂S-cysteine solution (autoclaved) as sterile stock solutions to sterile medium after autoclaving. Adjust pH to 7.0.

Na₂S-cysteine solution

Cysteine-HCl	5.0	g
Na ₂ S × 9 H ₂ O	5.0	g
Distilled water	100.0	ml

Prepare under N₂ gas.

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Trace element solution:

Nitrilotriacetic acid	1.50	g
MgSO ₄ x 7 H ₂ O	3.00	g
MnSO ₄ x H ₂ O	0.50	g
NaCl	1.00	g
FeSO ₄ x 7 H ₂ O	0.10	g
CoSO ₄ x 7 H ₂ O	0.18	g
CaCl ₂ x 2 H ₂ O	0.10	g
ZnSO ₄ x 7 H ₂ O	0.18	g
CuSO ₄ x 5 H ₂ O	0.01	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.02	g
H ₃ BO ₃	0.01	g
Na ₂ MoO ₄ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.03	g
Na ₂ SeO ₃ x 5 H ₂ O	0.30	mg
Distilled water	1000.00	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	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl x 2 H ₂ O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Ca-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