

113a: SULFURIMONAS HONGKONGENSIS MEDIUM

Final pH: 7.0 - 7.2

Final volume: 1004 ml

Solution A	942.00	ml
Solution B	40.00	ml
Solution C	20.00	ml
Solution D	1.00	ml
Solution E	1.00	ml

Solutions A, B, and D are prepared under 100% N₂ gas atmosphere and sterilized by autoclaving at 121°C for 15 min. Solution C is sterilized by filtration under an atmosphere of 80% N₂ and 20% CO₂ gas mixture. Solution E is prepared under a 100% N₂ gas atmosphere and sterilized by filtration. Appropriate amounts of solutions B to E are added to the sterile solution A in the sequence as indicated. Check the pH of the complete medium and adjust to pH 7.0-7.2, if necessary.

Solution A

NaCl	25.00	g
KH ₂ PO ₄	2.00	g
KNO ₃	2.00	g
NH ₄ Cl	1.00	g
MgSO ₄ x 7 H ₂ O	0.80	g
Trace element solution SL-4	2.00	ml
Distilled water	940.00	ml

Solution B

Na ₂ S ₂ O ₃ x 5 H ₂ O	5.00	g
Distilled water	40.00	ml

Solution C

Na ₂ CO ₃	1.00	g
Distilled water	20.00	ml

Solution D

FeSO ₄ x 7 H ₂ O	2.00	mg
H ₂ SO ₄ (0.1 N)	1.00	ml

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Solution E

Wolin's vitamin solution (10x)	1.00	ml
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Trace element solution SL-4 (from medium 14)

Na ₂ -EDTA	0.50	g
FeSO ₄ x 7 H ₂ O	0.20	g
ZnSO ₄ x 7 H ₂ O	0.10	g
MnCl ₂ x 4 H ₂ O	0.03	g
H ₃ BO ₃	0.30	g
CoCl ₂ x 6 H ₂ O	0.20	g
CuCl ₂ x 2 H ₂ O	0.01	g
NiCl ₂ x 6 H ₂ O	0.02	g
Na ₂ MoO ₄ x 2 H ₂ O	0.03	g
Distilled water	1000.00	ml

First dissolve EDTA in distilled water and adjust pH to 7.0 using 2 N NaOH; then add other compounds.

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

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