



1293: MMJF MEDIUM

Modified MJ synthetic seawater C	1000.00	ml
Ferrihydrite	2.00	g

1. Mix components and adjust pH to 6.5. Distribute the medium into culture vessels under a N₂-CO₂ (4:1, v/v) gas mixture, seal with butyl rubber stoppers and autoclave. After cooling, aseptically and anaerobically add per liter the following solution (filter-sterilized):

NaHCO ₃ (8%)	12.50	ml
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2. Check final pH of the medium to be 6.5.

Modified MJ synthetic seawater C

NaCl	25.00	g
MgCl ₂ x 6 H ₂ O	4.20	g
MgSO ₄ x 7 H ₂ O	3.40	g
KCl	0.50	g
NH ₄ Cl	0.25	g
K ₂ HPO ₄	0.14	g
CaCl ₂ x 2 H ₂ O	0.70	g
FeSO ₄ x 7 H ₂ O	0.02	g
Trace mineral solution	10.00	ml
Distilled water	1000.00	ml

Trace mineral solution

Trace minerals	1000.000	ml
NiCl ₂ x 6 H ₂ O	0.075	g
Na ₂ SeO ₃ x 5 H ₂ O	0.050	g
Na ₂ WO ₄ x 2 H ₂ O	0.100	g

Trace minerals

Nitrilotriacetic acid	1.50	g
MgSO ₄ x 7 H ₂ O	3.00	g
MnSO ₄ x n 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	0.10	g
CaCl ₂ x 2 H ₂ O	0.10	g
ZnSO ₄ x 7 H ₂ O	0.10	g
CuSO ₄ x 5 H ₂ O	0.01	g



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AlK(SO ₄) ₂	0.01	g
H ₃ BO ₃	0.01	g
Na ₂ MoO ₄ x 2 H ₂ O	0.01	g
Distilled water	1000.00	ml

Dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH solution. Then proceed to add minerals. Adjust final pH to 7.0.