1293: MMJF MEDIUM

Final pH: 6.5
Final volume: 1012 ml

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 N_2-CO_2 (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

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_2O	4.20	g
$MgSO_4$ x 7 H_2O	3.40	g
KCl	0.50	g
NH_4Cl	0.25	g
K_2HPO_4	0.14	g
$CaCl_2$ x 2 H_2O	0.70	g
$FeSO_4$ x 7 H_2O	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_2O	0.075	g
Na_2SeO_3 x 5 H_2O	0.050	g
Na_2WO_4 x 2 H_2O	0.100	g

Trace minerals

Nitrilotriacetic acid	1.50	g
$MgSO_4$ x 7 H_2O	3.00	g
$MnSO_4$ x n H_2O	0.50	g
NaCl	1.00	g
$FeSO_4$ x 7 H_2O	0.10	g
$CoSO_4$ x 7 H_2O	0.10	g

$CaCl_2$ x 2 H_2O	0.10	g
$ZnSO_4$ x 7 H_2O	0.10	g
$CuSO_4$ x 5 H_2O	0.01	g
$AlK(SO_4)_2$	0.01	g
H_3BO_3	0.01	g
Na_2MoO_4 x 2 H_2O	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.