MDV

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Molarity (mM)
NaCl	241	100	400
$MgCl_2 \cdot 6H_2O$	435	20	43
KCl	54	10	7.2
Na_2SO_4	32	100	23
$CaCl_2 \cdot 2H_2O$	160	10	11

Adjust to 900mL with mQ water and autoclave.

After cooling, add the following filter sterilized (0.2 µm) components to complete the medium:

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Molarity (mM)
$NaNO_3$	100	5	6
$NaHCO_3$	18	10	2
$NaH_2PO_4 \cdot H_2O$	6.9	1	0.05
$Na_2SiO_3 \cdot 9H_2O$	21.3	2	0.15
Citrate mix	See recipe below	10	-
Trace metal mix	See recipe below	1	-
Vitamins 8 Mix	See recipe below	1	-
M2	See recipe below	1	-

For solid medium use 7g/L of agarose. Sterilize the agarose separately in 550 ml of milliQ water. In this case the mineral solution is filled up to 400 ml.

Trace Metal Mix:

Trace metals	Stock1 (g/L)	Trace metal mix (Stock1 mL/L)
$CuSO_4 \cdot 5\ H_2O$	9.8	1
$ZnSO_4 \cdot 7H_2O$	22	1
$CoCl_2 \cdot 6H_2O$	10	1
$MnCl_2 \cdot 4H_2O$	18	1
$Na_2MoO_4 \cdot 2H_2O$	6.3	1
$Na_2SeO_3 \cdot 5H_2O$	0.016	0.1

Prepare apart a stock solution for each Trace metal (Stock1) and use the quantity indicated for the final Trace Metal Mix

Citrate Mix:

Trace metals	Quantity g/L
$C_6H_8O_7 \cdot H_2O$	0.3
Fe-NH_4-citrate	0.36

M2:

Trace metals	Quantity (g/L)
KBr	39
$SrCl_2 \cdot 6H_2O$	10
$AlCl_3 \cdot 6H_2O$	0.014
LiCl	0.003
KI	0.010
H_3BO_3	11
RbCl	0.03

Vitamins 8 mix:

Vitamins	Stock 1 (g/100mL)	Vitamins 8 mix (Stock1 mL/100mL)
Biotin*	0.004	0.1
Thiamine-HCl	0.02	10
Cyanocobalamin	0.08	0.1
Folic acid*	0.008	0.1
Inositol	0.02	1
Nicotinic acid	0.04	1
Thymine*	0.012	1
Ca-d-pantothenate	0.04	1

*Dissolve first in 1N NaOH and then bring to volume with mQ water.

Prepare apart a stock solution for each Vitamin (Stock1) and use the quantity indicated for the final Vitamins 8 mix.