M7 MEDIUM

PROTOCOL

- Add the stock solutions, and fill with ultrapure water to prepare 1L
- Autoclave

Reagent	Name	ml/L
KNO_3	Potassium Nitrate	10 ml
$MgSO_4.7H_2O$	Magnesium sulfate heptahydrate	10 ml
$(NH_4)_2HPO_4$	Diammonium hydrogen phosphate	5 ml
C_aSO_4	Calcium sulfate	10 ml
-	Soil Extract	20 ml
-	Micronutrients	5 ml
-	Vitamin B12*	1 ml

*Add after autoclaving.

Composition of stock Solutions:

Micronutrients solution 1

Reagent	Name	ml/L
H_3BO_3	Boric acid	5 ml
$MnCl_2.4H_2O$	Manganese dichloride tetrahydrate	2 ml
$ZnSO_4.7H_2O$	Zinc Sulphate Heptahydrate	1 ml
$Na_2MoO_4.2H_2O$	-	5 ml
$CuSO_4.5H_2O$	Copper sulfate pentahydrate	1 ml
$Co(NO_3)_2.6H_2O$	Cobalt(II) nitrate hexahydrate	5 ml

Micronutrients solution 2

Reagent	Name	g/L
$FeSO_4.7H_2O$	Iron(II)sulphate	0.7
EDTA	-	0.4

The two micronutrients solutions are made and autoclaved separately.

The composition of the basic solutions are available in the Z8 medium.

Soil Extract Solution 100g/1L

- Soil without pesticides,
- Add distilled water to the soil, mix it and let it boil for 1h

- After cooling down, discard the pellet, and store the supernatant
- Let the supernatant rest for 1h, filter the liquid trough cotton to get the soil extract
- Centrifuge the soil extract 10 min, 4000 rpm until the color is transparent
- Autoclave the extract at least 2/3 days in a row
- Store in the at 4ºC