



NRRL Medium No. 52

Frankia Media plus Tween 80 (FM T80)

Per Liter of medium:

MgSO ₄ x 7 H ₂ O	0.2 g
K ₂ HPO ₄	0.5 g
Casein Hydrolysate	4.0 g
Glucose.....	10.0 g
Yeast Extract.....	0.05 g
Tween 80	2.0 ml
Vitamin Solution.....	1.0 ml
Chelated Iron Solution	1.0 ml
Trace Element solution.....	1.0 ml
Water	1000 ml

Adjust media to pH 6.8 and autoclave at 121C for 30 minutes.

Stock Solutions:

Vitamin Solution

Cyanocobalamin (B12).....	10 mg
Nicotinic Acid.....	50 mg
Pyridoxine HCl.....	50 mg
Water.....	100 ml

Filter sterilize and keep at 4C in dark.

Chelated Iron Solution

Citric Acid	1.0 g
Ferric citrate.....	1.0 g
Water.....	100 ml

Autoclave after preparation before adding to media.

Trace Element Solution

MnSO ₄ x H ₂ O.....	0.0700 g
ZnSO ₄ x 7 H ₂ O	0.0600 g
CuSO ₄ x 5 H ₂ O	0.0100 g
Ammonium Molybdate ((NH ₄) ₆ Mo ₇ O ₂₄ .4H ₂ O).....	0.0020 g
CoSO ₄ x 7 H ₂ O.....	0.0001 g
CaCl ₂ H ₄ O ₂	2.5000 g
H ₃ BO ₃	0.1500 g
Water.....	100 ml

Autoclave stock solution for storage.