BASAL MEDIUM 2

	1 litre	20 ml
Phosphate ammonia base (BM2 10X)	100 ml	2 ml
H_2O	900	18
***Carbon source*:** 40% glucose	10	0.2
50 mM $MgSO_4$	10	0.2
10 mM $FeSO_4$	1	0.02

Wash all glassware at least three times with dH_2O.
Make and autoclave all ingredients separately and add aseptically.
40% glucose becomes 0.4% glucose.

Note: When making 10mM $FeSO_4$, add a few mls of concentrated HCl and the iron will stay in solution. (Red color will almost disappear – if not be sure to shake well before adding to media)

BM2 10X

	1 litre
0.07 M $(NH_4)_2SO_4$	9.25 g
0.4 M K_2HPO_4	69.7
0.22 KH_2PO_4	29.9
pH 7.0	

ALTERNATE CARBON SOURCES:

	1 litre
2 M K succinate, pH 7.0	10 ml
2 M K gluconate, pH 7.0	10
2 M K pyruvate, pH 8.0	10

Make each from their respective acids (succinic acid, gluconic acid, pyruvic acid) and pH using KOH pellets. You will need a fair amount of KOH to reach a neutral pH.
2 M solutions become 0.02M.
You can autoclave glucose, K gluconate, and K succinate but filter sterilize K pyruvate. Check pH of older stocks.