M9 MINIMAL MEDIUM

REFRENCE: Molecular Cloning, A Laboratory Manual 1st ed. Maniatis. 1982. p.68.

STOCK SOLUTIONS:

1.	10X M9 SALTS	Na_2HPO_4	60 g
		KH_2PO_4	30 g
		NaCl	5 g
		NH_4Cl	10 g
		dH_2O	to 1 litre (pH before adding all the water)

Adjust to pH 7.4 with 10 M NaOH or NaOH pellets.
Autoclave to sterilize.

2.	1 M $MgSO_4$	Autoclave.
3.	1 M $CaCl_2$	Autoclave.
4.	40% (w/v) glucose	Filter sterilize.

FOR BROTH:

Autoclave 900 mls dH_2O.
Let cool then aseptically add:

100 mls M9 salts
2 mls 1 M $MgSO_4$
0.1 ml 1 M $CaCl_2$ **Note: <u>Do Not</u>** add $CaCl_2$ for Pseudomonas
5 mls 40% glucose

FOR AGAR:

Autoclave 900 mls dH_2O
20 g agar

Let cool to 50°C then aseptically add ingredients as for broth.

NOTES:
a. $CaCl_2$ will precipitate if added when media is too hot.
b. You can autoclave dH_2O and 10X salts together when making the broth, then add the rest when cool.