DEFINED PHOSPHATE MINIMAL MEDIA (KEITH'S)

For P. aeroginosa and other bacteria

REFRENCE: J. Bacteriology. 150:730, 1982.

		1 litre
1 M Hepes (pH 7.4, use HCl or 5 N NaOH)		100 ml
10X $(NH_4)_2SO_4$ (=70 mM; 10X = 9.25 g/l)		100
2 M K succinate (pH to 7.2 with solid KOH)		10
0.1 M $MgSO_4$		5
10 mM $FeSO_4$		1
Ion solution		1
BM2 10X (no $(NH_4)_2SO_4$)	Pi suf. = 1.5 mls	Pi def. = 0.3 mls
dH_2O	Pi suf. = 781.5 mls	Pi def. = 783 mls

Autoclave dH_2O, Hepes + $(NH_4)_2SO_4$ together, others separately (except ion solution which must be chloroform sterilized). Add others after autoclaving.

ION SOLUTION

REFERECE: Hancock, Raffle and Nicas. AAC. 19(5):777 – 785, 1981.

1.78 mM	$FeCl_3$-$5H_2O$	48 mg
1.62 mM	$MnCl_2$-$4H_2O$	32 mg
2.45 mM	$CaCl_2$-$2H_2O$	36 mg
13.91 mM	$ZnSO_4$-$7H_2O$	400 mg
4.69 mM	H_3BO_3	29 mg
0.67 mM	CsCl-$6H_2O$	16 mg

In 100 mls dH_2O

Sterilize by adding 5 ml of $CHCl_3$ and shaking.