

DEFINED PHOSPHATE MINIMAL MEDIA FOR *E. coli*

REFERENCE: *J. Bacteriology* 143:153, 1980.

MATERIALS:

Components must be sterilized separately and added together using sterile technique.

100.0ml	1M Hepes pH 7.4 (Total of 29.75 g/l media)
100.0ml	10X Salts: 4.65g NaCl 1.5g KCl 1.08g NH ₄ Cl 0.54mg FeCl ₂ 0.425g Na ₂ SO ₄ (may need to add separately) Make up to 100ml with distilled water
10.0ml	40% (w/v) glucose
2.0ml	0.1M CaCl ₂ .2H ₂ O (29.5g/l media)
0.5ml	1% (w/v) amino acids (for auxotrophs only)
0.5ml	2.0M MgCl ₂ .H ₂ O (0.2g/l media)
1.0ml	1.0mg/ml thiamine
6.6ml	0.1M K ₂ HPO ₄ (for Pi sufficient medium) (660uM) OR
0.41ml	0.1M K ₂ HPO ₄ (for Pi deficient medium) (42uM)
779.4ml	distilled water (for Pi sufficient medium) OR
785.6ml	distilled water (for Pi deficient medium)