

Procedure for IsoMEM Preparation

1. Buffer (stock 10X = .1M)

Add 500 ml d. H₂O each

- a. 7.19 g of Na₂HP0₄ m.w. 142
- b. 10.16g of MgCl₂ 6H₂O m.w. 203.3

2. Buffers (stock 1X= .01M)

Use buffer 10X, dilute 1:10 to give .01 M Na₂HP0₄, MgCl₂. 6H₂O

3. IsoMEM

- Take
- a) 100 ml of 0.01 M Na₂HP0₄
 - b) 100 ml of 0.01 M MgCl₂ 6H₂O
 - c) 800 ml distilled H₂O
 - d) 1 envelope MEM (with Hanks salts)
(with glutamine)
(without Sodium Bicarbonate)

In a beaker of 1000 ml, mix a,b. Add about 300 ml of c. Mix in envelope of Minimum Essential Medium (Eagle). Rinse envelope with what is left of distilled H₂O.

Test pH and conductivity. Should be pH 7.15

conductivity = 13,400 mhos
or = 14,000

4. For hyper MEM, make as above, but only add 600 ml of dist. H₂O. Hyper MEM is used in plaquing to make agarose.

Conductivity hyper 17,500 mhos.

GIBCO #F-12 MEM = Hanks' Salts. Powder Media.