

IEF microRotor (BioRad) Prepare **10ml of 0.1M H<sub>3</sub>PO<sub>4</sub>** from 85% stock bottle (FW=98g).

$$10\text{ml} = 10 \times 10^{-3}\text{L} = 0.01\text{L}$$

$$(A) 85\% = 85\text{g}/100\text{ml}$$

$$(B) 0.1\text{M} = \text{g} / (98\text{g}/\text{mol}) / 0.01\text{L} \\ = 0.098\text{g}$$

Since the bottle contains 85g of H<sub>3</sub>PO<sub>4</sub> for each 100ml  
And we need 0.098g in unknown volume

$$V = (0.098\text{g} \times 100\text{ml}) / 85\text{g} = \mathbf{0.115\text{ml}} = 115\mu\text{l} \text{ and complete with } \mathbf{9.885\text{ml water}} \text{ to get } \\ 10\text{ml of } 0.1\text{M H}_3\text{PO}_4$$