For Demonstrators – Guideline stock solutions [ For each group ]

***The guideline reagents are in excess, students should not require to weight and prepare more than specify below:***

Students would have to prepare the stock solution of

* 50mL of 1M KH2PO4  ( ~ 6.8g )
* 50mL of 1M K2HPO4  ( ~8.7g)

With this stock solution, further dilute into 0.5L to make up 0.1M of Potassium phosphate buffer. This should be enough for them to dilute BSA/ ANS / UREA/ GdmCL in different concentration.

Depending on the ratio of KH2PO4 andK2HPO4 (Ask students to check Henderson-Hasslbalch equation pH = pK+ + log[ ( proton acceptor )/ (proton donor)] where pK+ = 6.86 at 25ºC.

* 10mL of 2M NAOH
* 10mL of 2M HCL

Are available for them adjust the buffer to pH 7.0.

Other reagents

* Stock concentration of 1mM Bovine serum albumin (BSA) ~ 5 mL ( ~332.5mg) store in **Fridge**
* Stock concentration of 1mM 1,8-anilinonaphthalene sulphonate (ANS) ~ 50mL (~14.96 mg) **Remember it needs to dissolve in 25% of DMSO and 75% buffer**
* Stock concentration of 15 M Urea~ 10-12 mL (~9.09g) **Remind students it takes time to dissolve / or can place in hot bath**
* Stock concentration of 12 M Guanidine hydrochloride (GdmCL) ~ 10 - 12 mL ( ~11.5g)