Creighton UNIVERSITY

10x FACSLyse Solution

(Greg A. Perry, Ph.D.)

Reagents:

2.5 g	Sodium Citrate
27 ml	Formaldehyde (37%)
30 ml	Diethylene Glycol (DEG)
43 ml	Distilled Water

Method:

1) Dissolve sodium citrate in distilled water.
2) Add formaldehyde and mix.
3) Add diethylene glycol. DEG may be difficult to get into solution, so mix well.

To Use:

1) Make a 1x working solution by diluting 10x FACSLyse solution with distilled water.
    a. For example, add 1ml 10x stock to 9 ml distilled water.
2) Add 2ml of 1x working solution to 100µl of whole blood.
3) Vortex gently, and incubate 10 minutes at room temperature in the dark.
4) Centrifuge and wash twice with PBS.

Notes:

- B/D adds 370mg of Tetrasodium EDTA to the 10x stock, however it does not seem to be required.
- If using in conjunction with staining for flow cytometry, cells should be stained and washed prior to lysing. The lysing step should be done last, just before resuspending cells in FACSFix.