Mouse Bone Marrow Transplantation

A. Solutions

Flush Solution (pH 7.3)

DMEM 225 ml  
FBS 25 ml  
heparin 10 U/ml (3.125 ml of stock* per 250 ml)

*heparin stock = 10 µg/µl  
80 units heparin/mg = 0.08 units/µg  
So a 10 µg/µl stock is 0.8 units/µl.

ACK lysing buffer (pH 7.2-7.4)

NH₄Cl 4.15 g  
KHCO₃ 0.5 g  
Na₂EDTA 18.6 mg  
H₂O 500 ml

Washing Buffer

1X PBS 50 ml  
Albumin 1 g

Suspending solution

DMEM 50 ml  
Albumin 0.5 g  
heparin 5 U/ml (312.5 µl of stock*)

B. Set up the day before the experiment

1. Prepare Flushing, Washing and Suspending solution fresh.  
2. Sterilize dissecting tools.  
3. Irradiate recipient mice.  
4. Bring donor mice over from mouse house.
Take to mouse house:

Bruincard
P200 and sterile tips
mouse immobilizer
insulin syringes
250ml flask
cells
ice bucket