

## Mouse Bone Marrow Transplantation

### A. Solutions

#### Flushing 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  $\mu\text{g}/\mu\text{l}$   
80 units heparin/mg = 0.08 units/ $\mu\text{g}$   
So a 10  $\mu\text{g}/\mu\text{l}$  stock is 0.8 units/ $\mu\text{l}$ .

#### ACK lysing buffer (pH 7.2-7.4)

$\text{NH}_4\text{Cl}$	4.15 g
$\text{KHCO}_3$	0.5 g
$\text{Na}_2\text{EDTA}$	18.6 mg
$\text{H}_2\text{O}$	500 ml

#### Washing Buffer

1X PBS	50 ml
Albumin	1g

#### Suspending solution

DMEM	50 ml
Albumin	0.5 g
heparin	5 U/ml (312.5 $\mu\text{l}$ 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