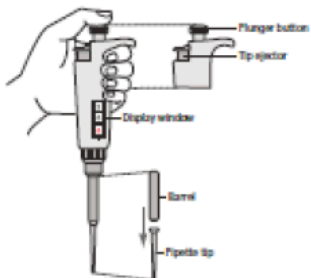


# LABORATORY 1.1 FLOWCHART

## Steps 1-2

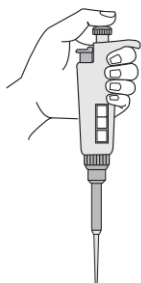


## Steps 3-5

Fill in the micropipette displays for the given volumes

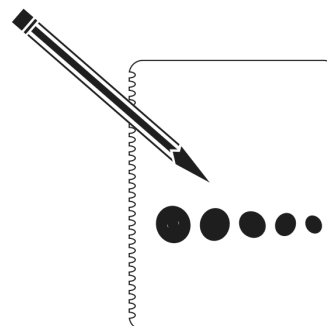
20.0 $\mu\text{L}$	12.4 $\mu\text{L}$	5.5 $\mu\text{L}$	2.0 $\mu\text{L}$

## Steps 9-13



Name	20.0 $\mu\text{L}$	15.0 $\mu\text{L}$	10.0 $\mu\text{L}$	5.0 $\mu\text{L}$	2.0 $\mu\text{L}$
1. _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Step 15

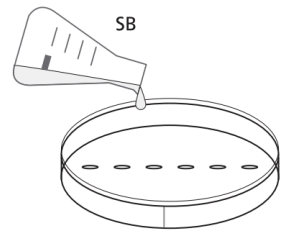


# LABORATORY 1.2 A FLOWCHART

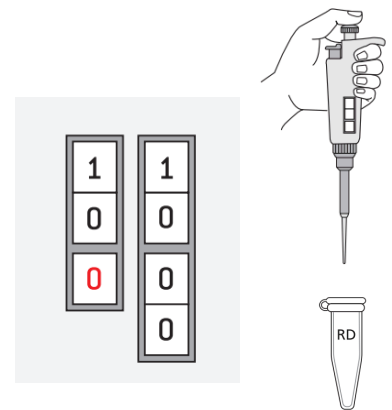
Step 1



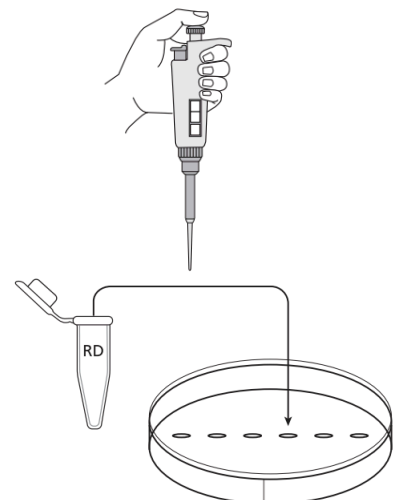
Step 2



Steps 3-4

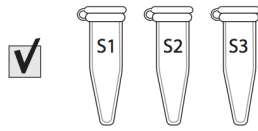


Step 5-7

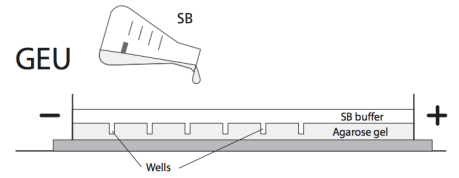


# LABORATORY 1.2 B FLOWCHART

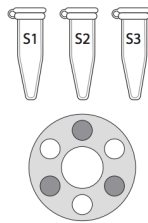
## Step 1



## Steps 2-3



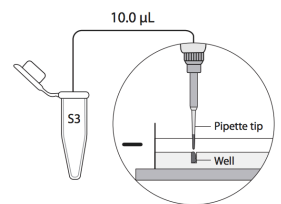
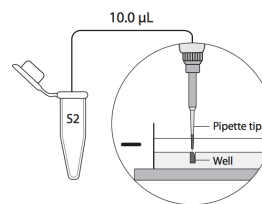
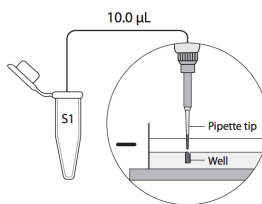
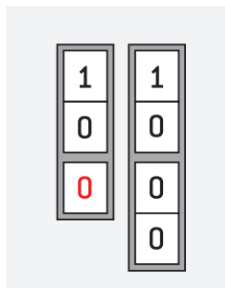
## Step 4



## Step 5



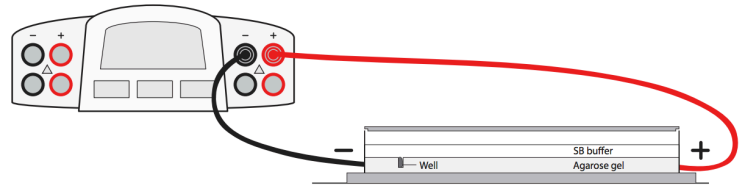
## Steps 6-9



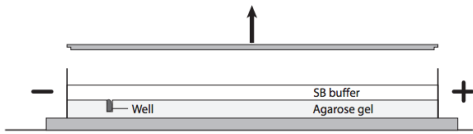
## LABORATORY 1.2 B FLOWCHART (CONT.)

Steps 10-13

Voltage:



Steps 14-15

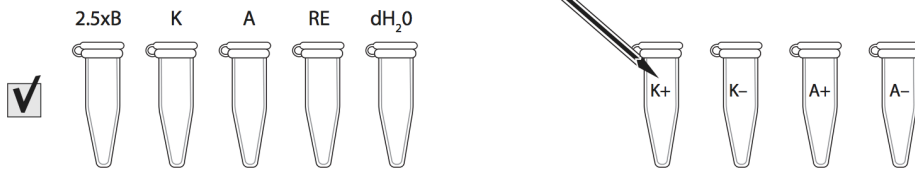


Step 16

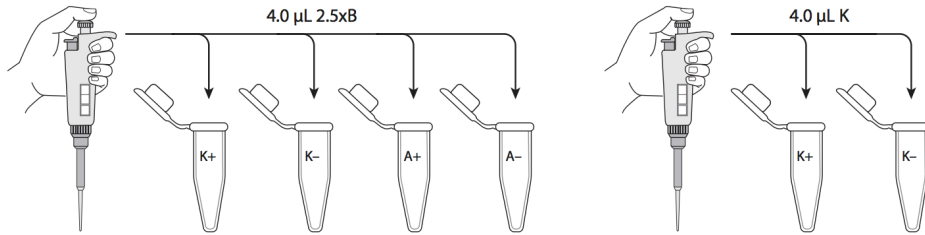


# LABORATORY 2 FLOWCHART

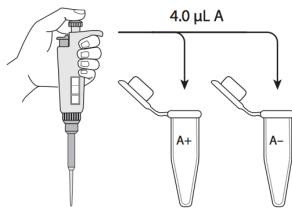
## Steps 1-3



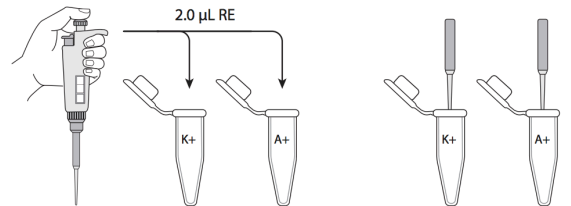
## Steps 4a-4b



## Step 4c

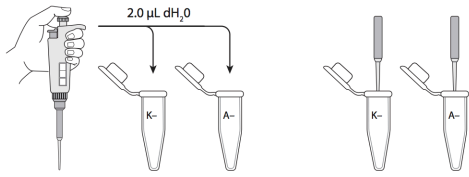


## Step 4d

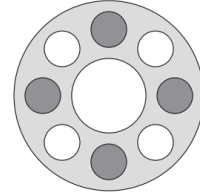


## LABORATORY 2 FLOWCHART (CONT.)

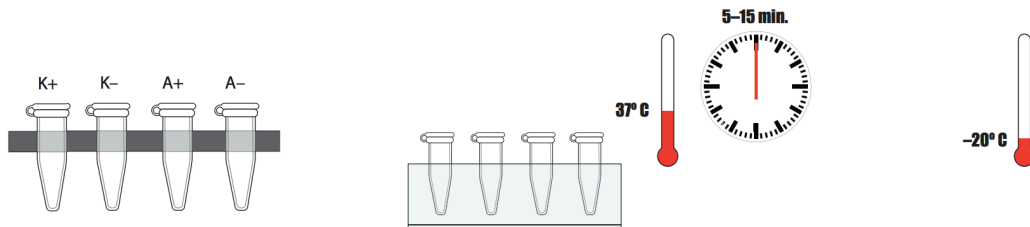
Step 4e



Step 5

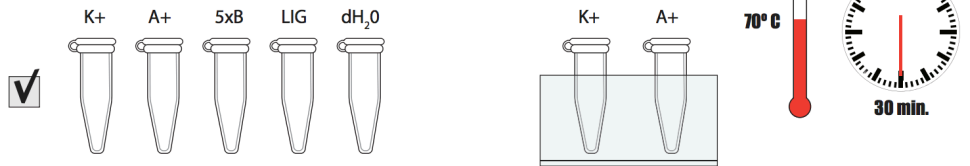


Step 6

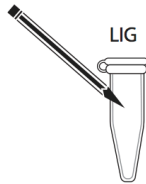


# LABORATORY 3 FLOWCHART

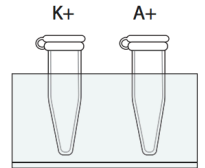
## Steps 1-2



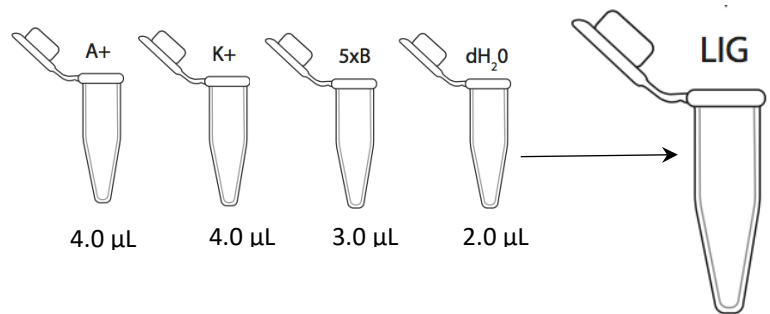
## Step 3



## Step 4

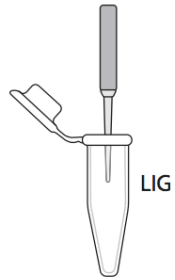


## Steps 5a-5d

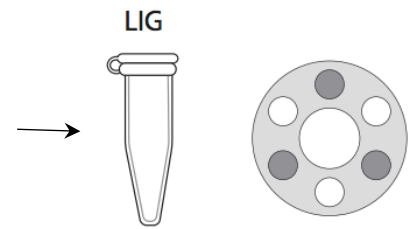


## LABORATORY 3 FLOWCHART (CONT.)

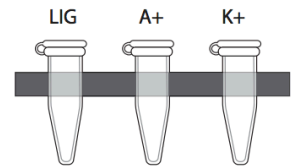
Step 6



Step 7



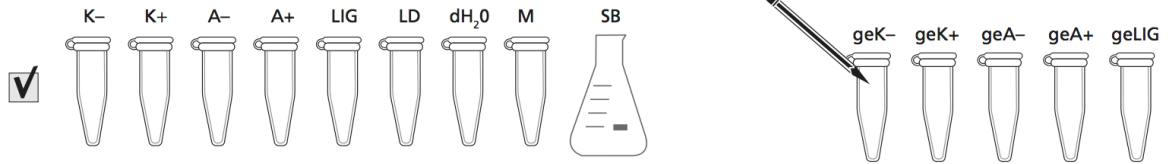
Step 8



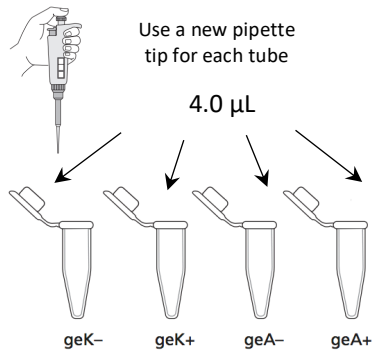


# LABORATORY 4 FLOWCHART

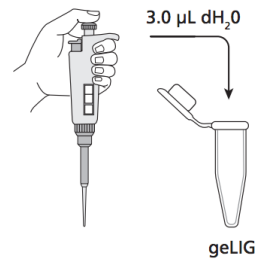
## Steps 1-3



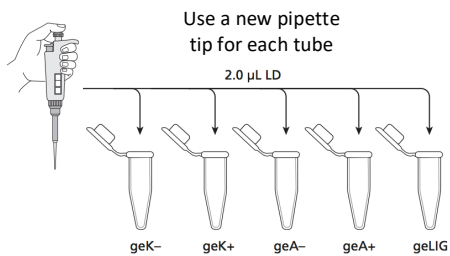
## Step 4



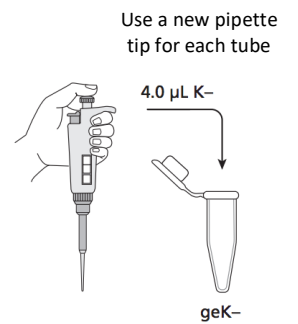
## Step 5



## Step 6



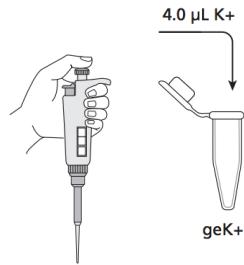
## Step 7a



# LABORATORY 4 FLOWCHART (CONT.)

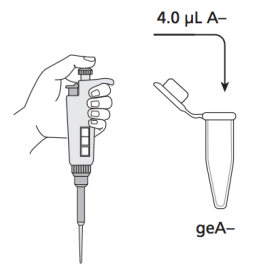
## Step 7b

Use a new pipette tip for each tube



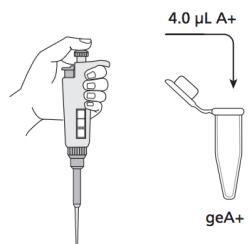
## Step 7c

Use a new pipette tip for each tube



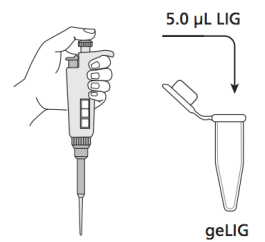
## Step 7d

Use a new pipette tip for each tube

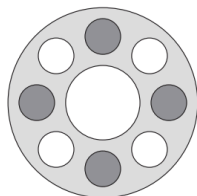


## Step 8

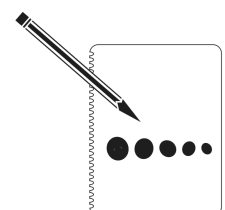
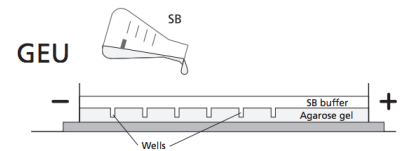
Use a new pipette tip for each tube



## Step 9

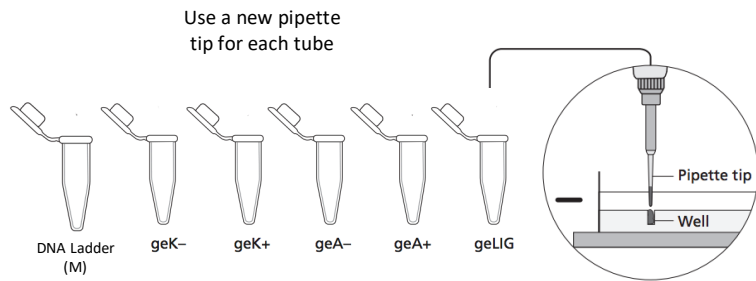


## Steps 10-12



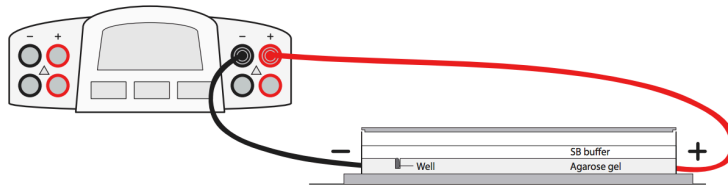
## LABORATORY 4 FLOWCHART (CONT.)

### Step 13



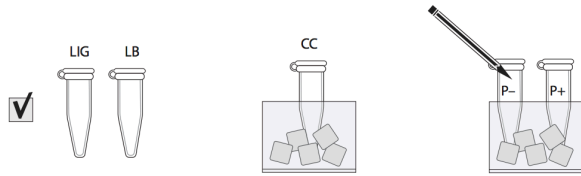
### Steps 14-17

Voltage:

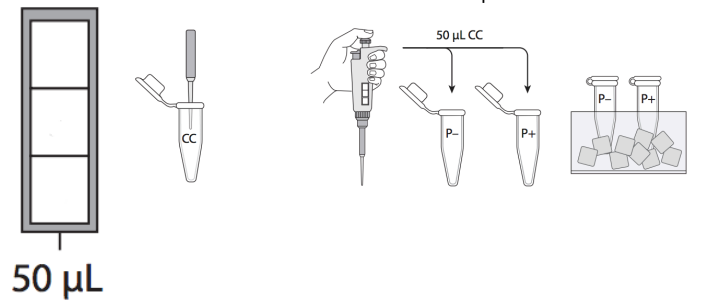


# LABORATORY 5 FLOWCHART

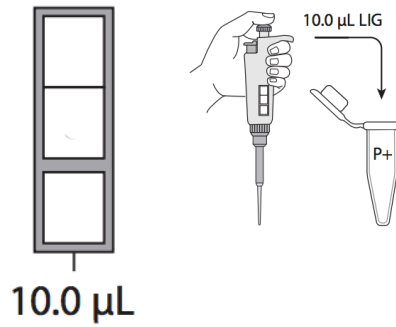
## Steps 1-4



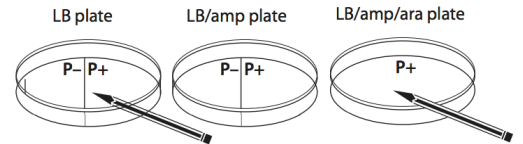
## Step 5



## Steps 6-7



## Step 8

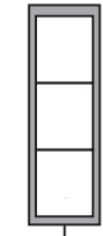


## Steps 9-10

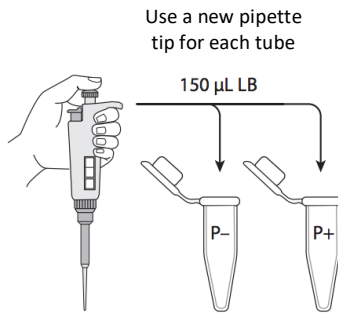


# LABORATORY 5 FLOWCHART (CONT.)

## Steps 11-12



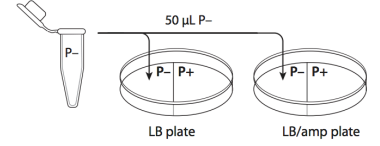
150 µL



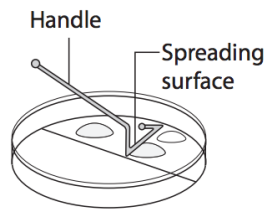
## Steps 13a-13e



50 µL



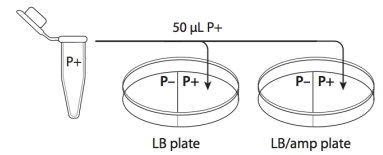
## Step 14



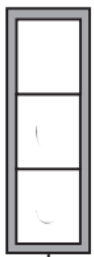
## Steps 15a-15e



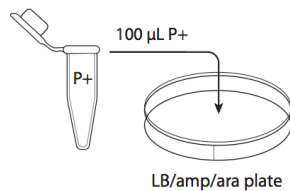
50 µL



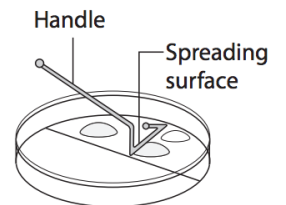
## Steps 15f-15g



100 µL

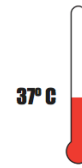
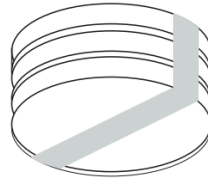


## Steps 16a-



## LABORATORY 5 FLOWCHART (CONT.)

Steps 17-21

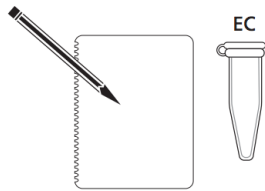


Step 22

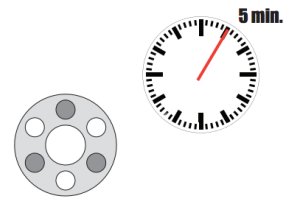


# LABORATORY 6 A FLOWCHART

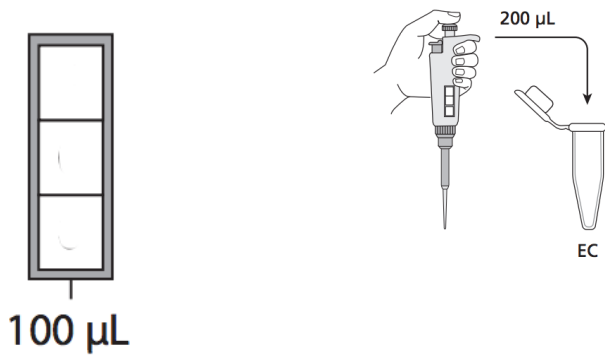
Steps 1-2



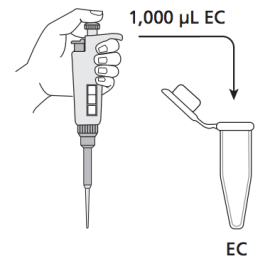
Step 3



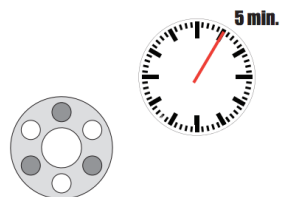
Step 4



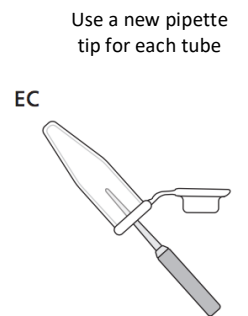
Step 6



Step 7

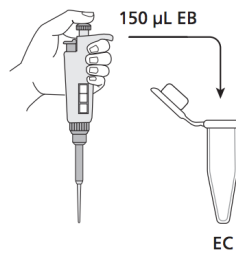


Step 8

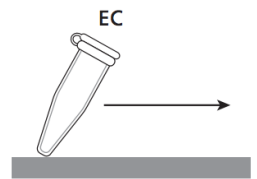


# LABORATORY 6 A FLOWCHART (CONT.)

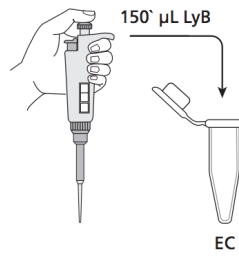
**Step 9**



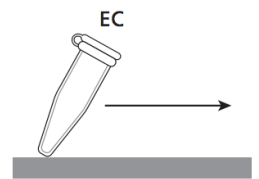
**Step 10**



**Step 11**



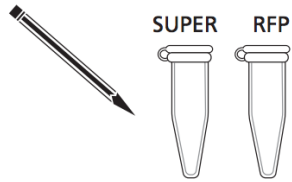
**Step 12**



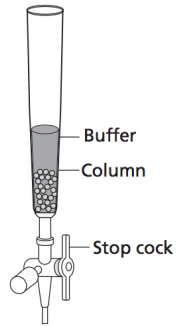


# LABORATORY 6 B FLOWCHART

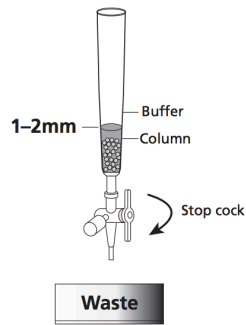
## Steps 1-3



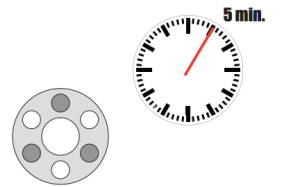
## Step 4



## Steps 5a-5d

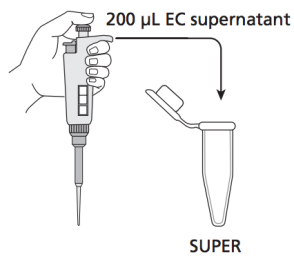


## Step 6



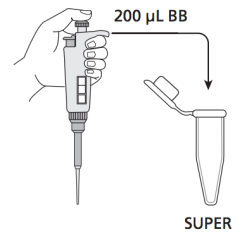
## Steps 7-8

Use a new pipette tip for each tube



## Step 9

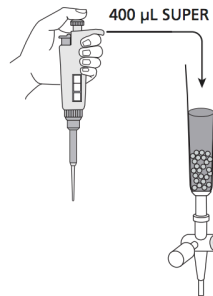
Use a new pipette tip for each tube



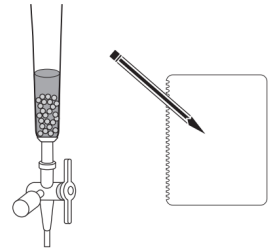
# LABORATORY 6 B FLOWCHART (CONT.)

## Steps 10-11

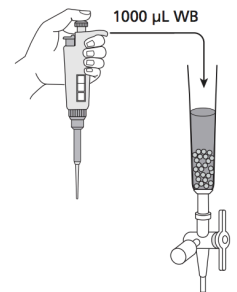
Use a new pipette tip for each tube



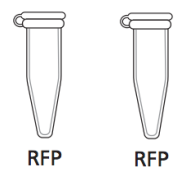
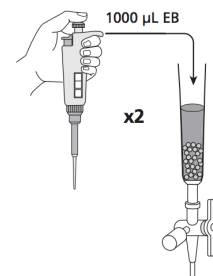
## Step 12



## Steps 13-15

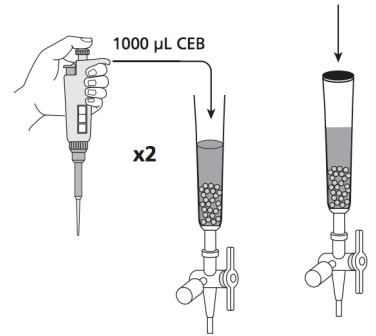


## Steps 16-18



## LABORATORY 6 B FLOWCHART (CONT.)

Steps 19-20



Step 21

