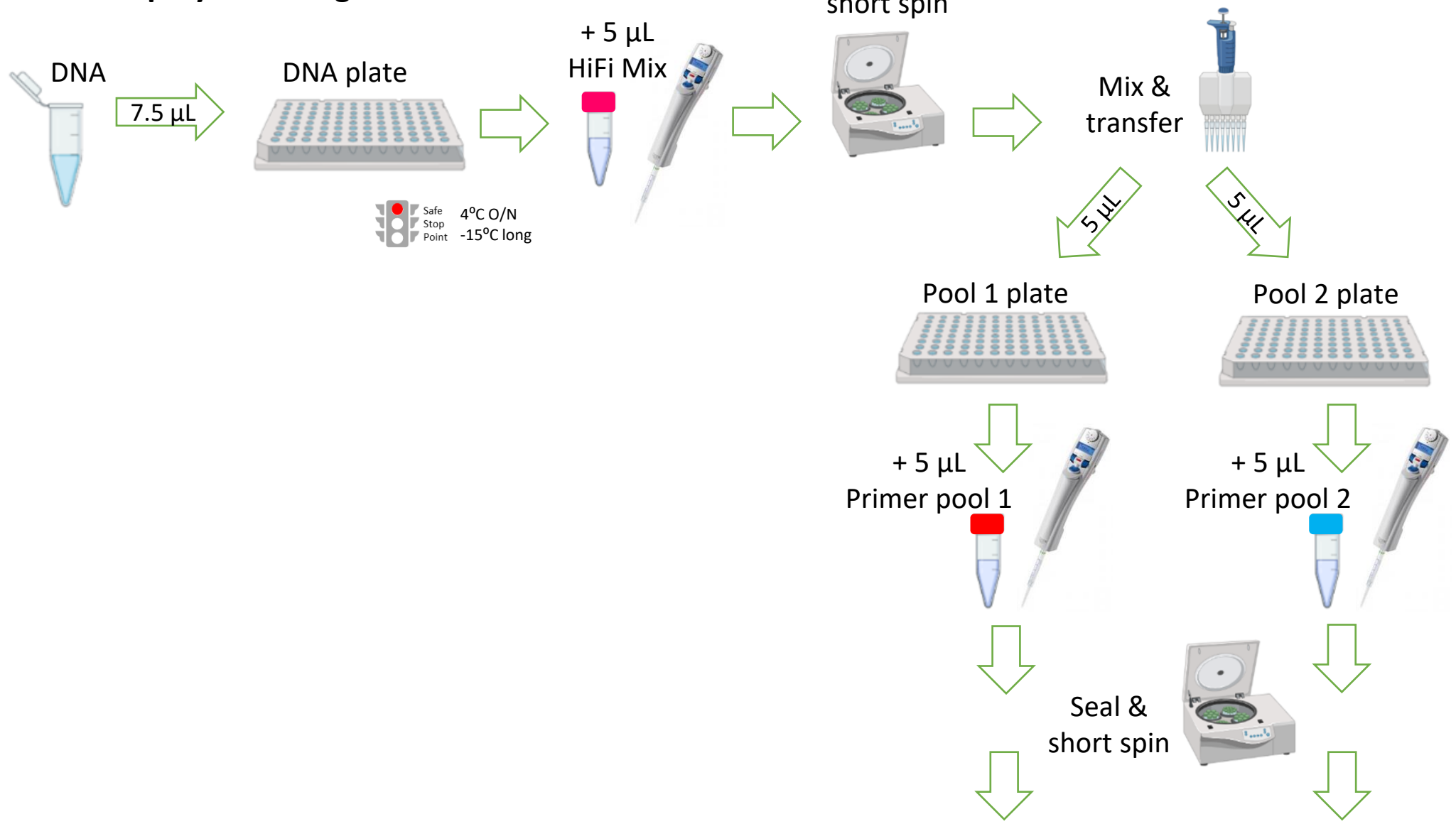


# 1. & 2. Amplify DNA Targets

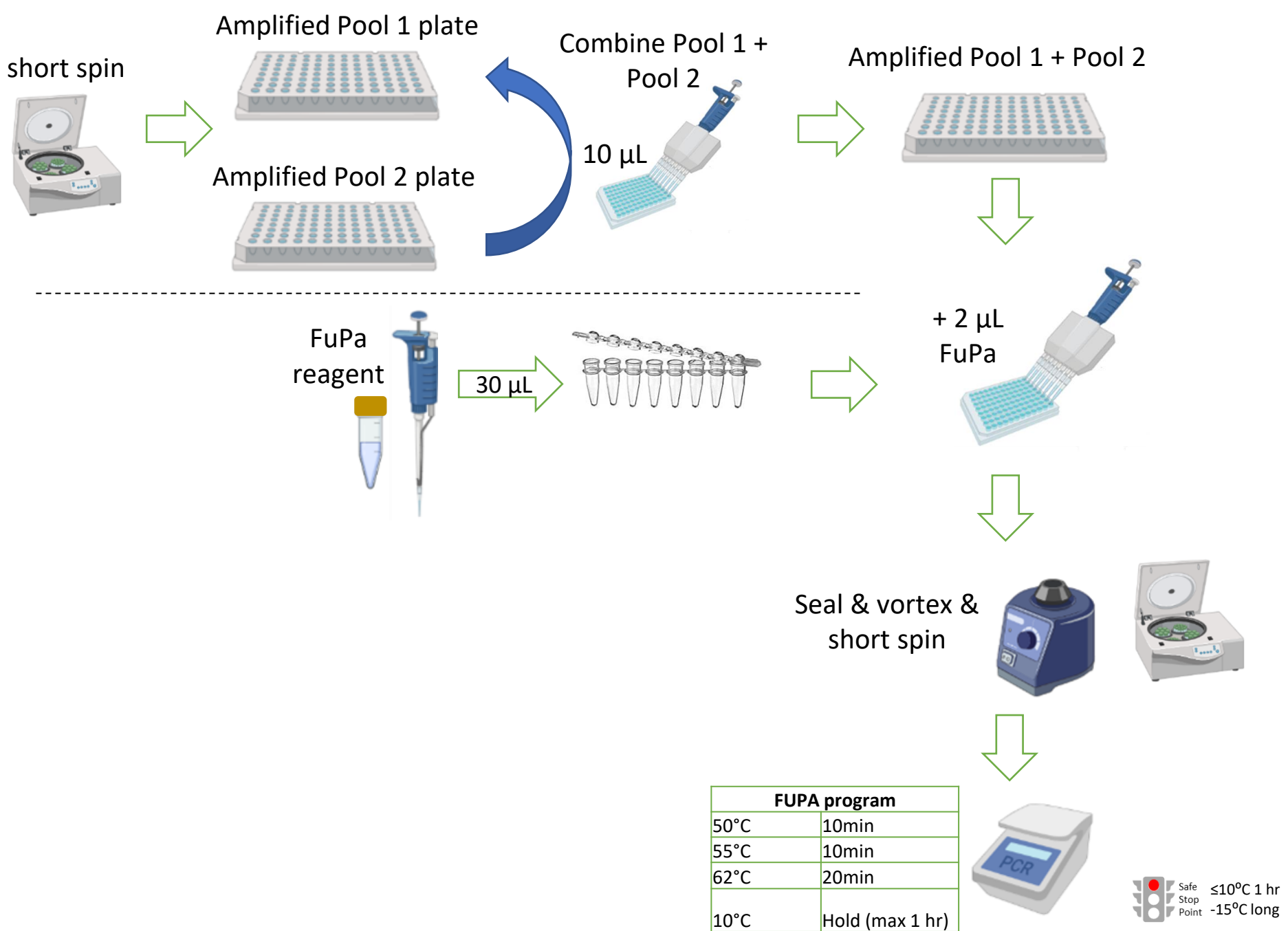


Safe  
 Stop  
 Point  
 4°C O/N  
 -15°C long

AMP_DNA program		
99°C	2min	1X
99°C	15sec	21X
60°C	8min	
10°C	Hold	up to 24h

Safe  
 Stop  
 Point  
 ≤10°C O/N  
 -15°C long

### 3. Partially digest amplicons

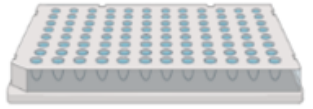


# 4. Ligate indexes

short spin



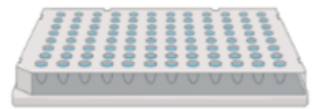
Pool 1 + Pool 2 digested amplicons



+ 4  $\mu$ L  
Switch solution



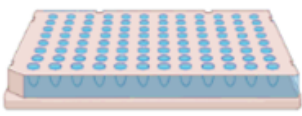
Pool 1 + Pool 2 digested amplicons + Switch solution



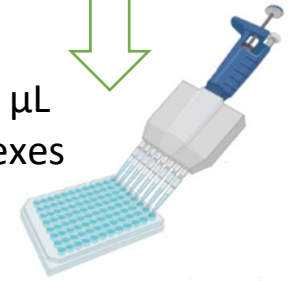
short spin



index plate

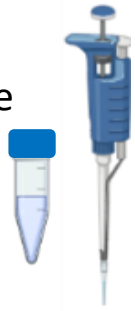


+ 2  $\mu$ L  
Indexes



DO NOT CHANGE ORDER OF REAGENTS

DNA Ligase



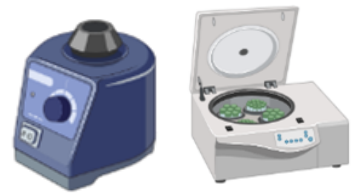
30  $\mu$ L



+ 2  $\mu$ L  
DNA Ligase



Seal & vortex & short spin

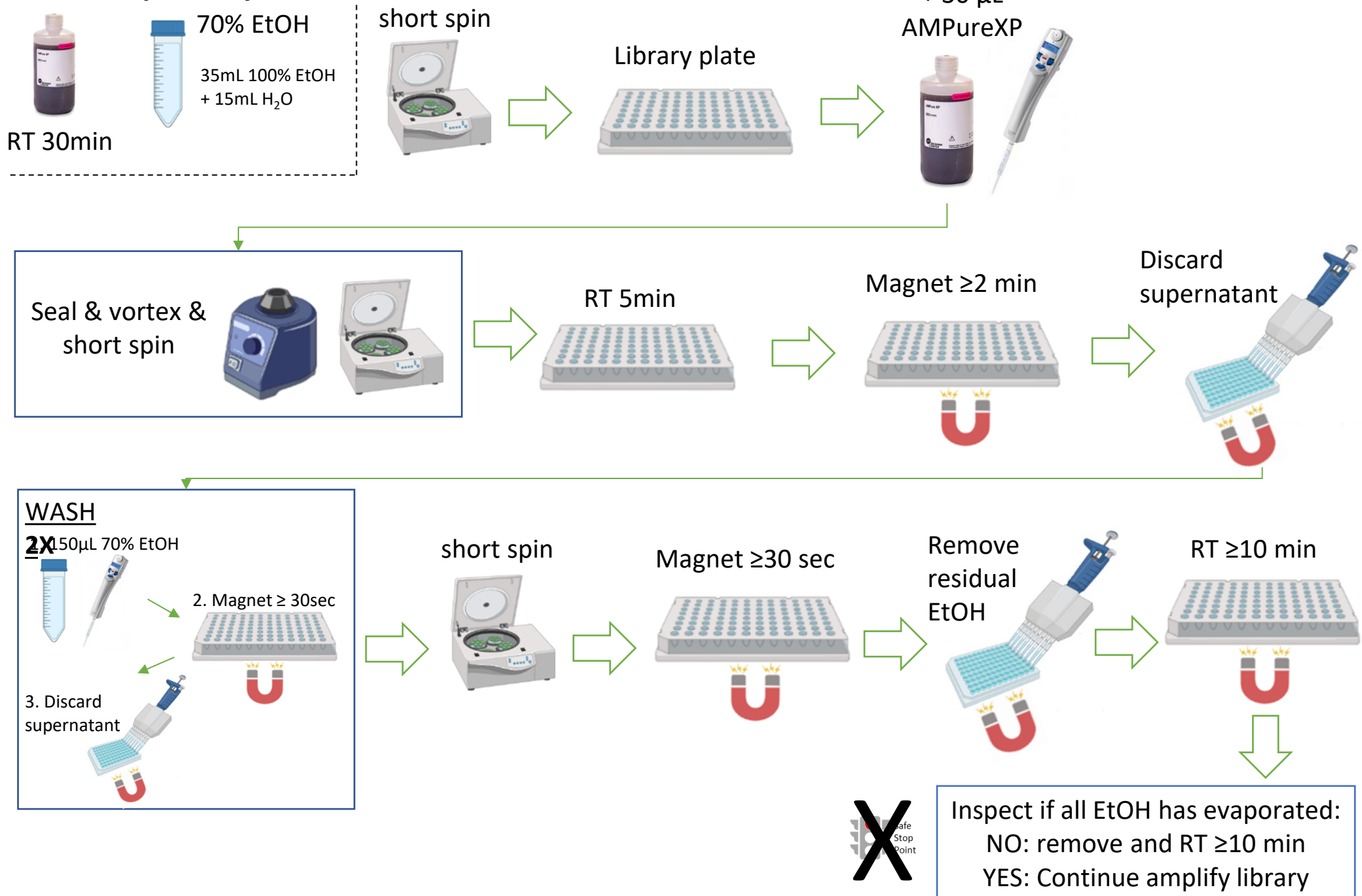


LIGATE program	
22°C	30 min
68°C	5 min
72°C	5 min
10°C	Pause (up to 24hrs)

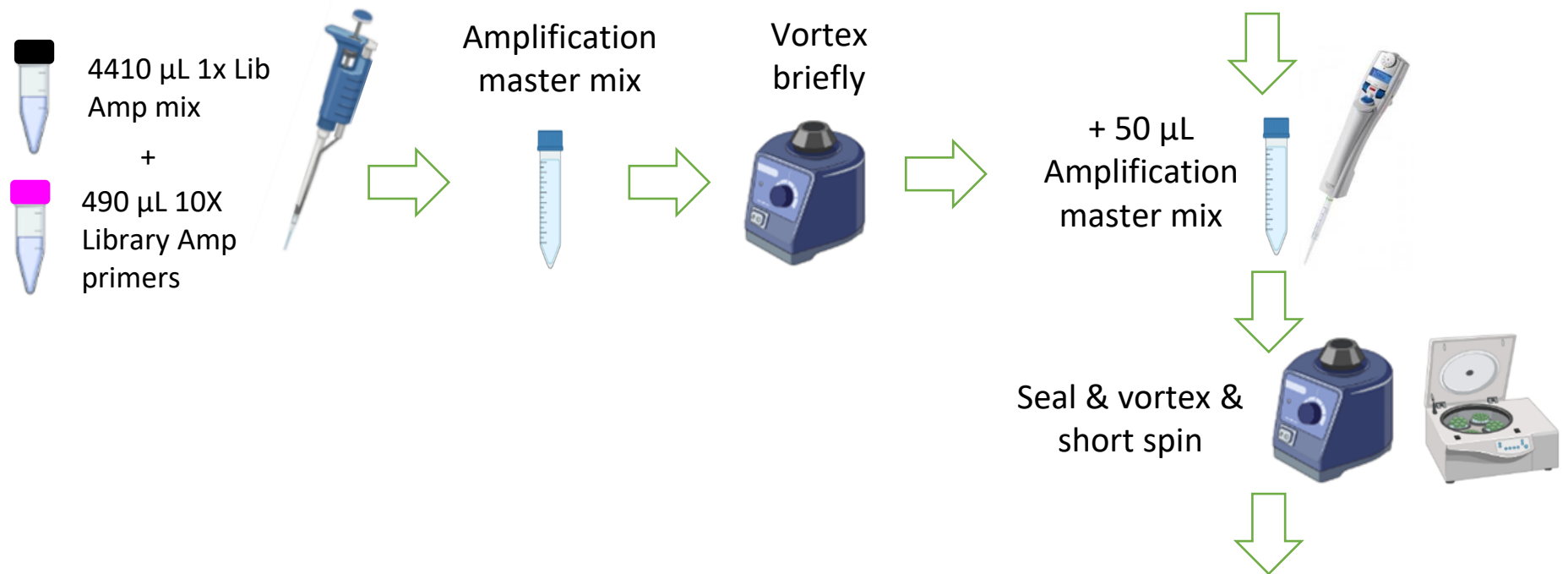


Safe Stop Point  $\leq 10^\circ\text{C}$  O/N  
 $-15^\circ\text{C}$  long

## 5. Clean-up Library



# 6. Amplify Library

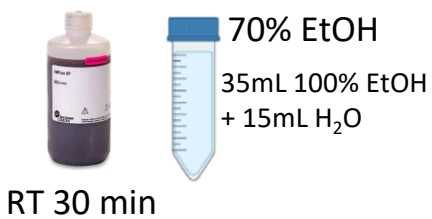


Beads in mix during amplification

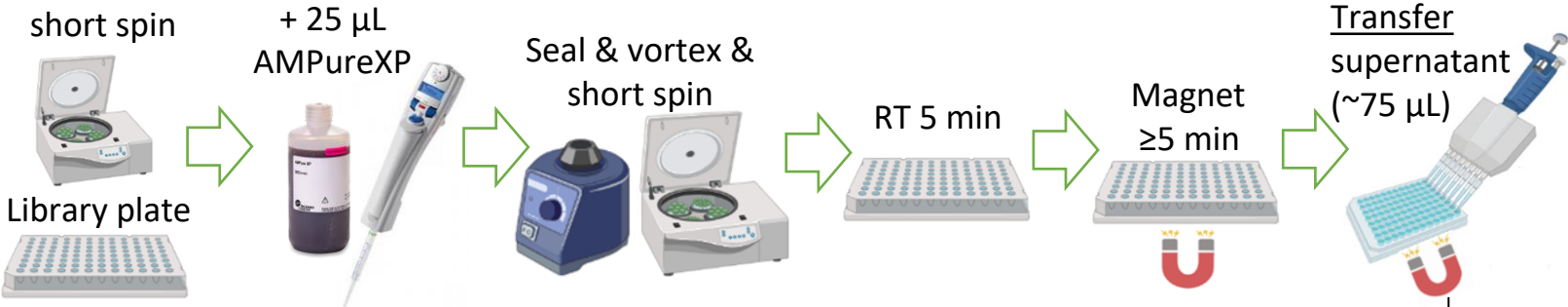
AMP_7 program		
Cycles	Temp.	Time
1	98°C	2 min
7	98°C	15 sec
	64°C	1 min
Hold	10°C	up to 24 hrs

Safe Stop Point ≤10°C O/N  
-15°C long

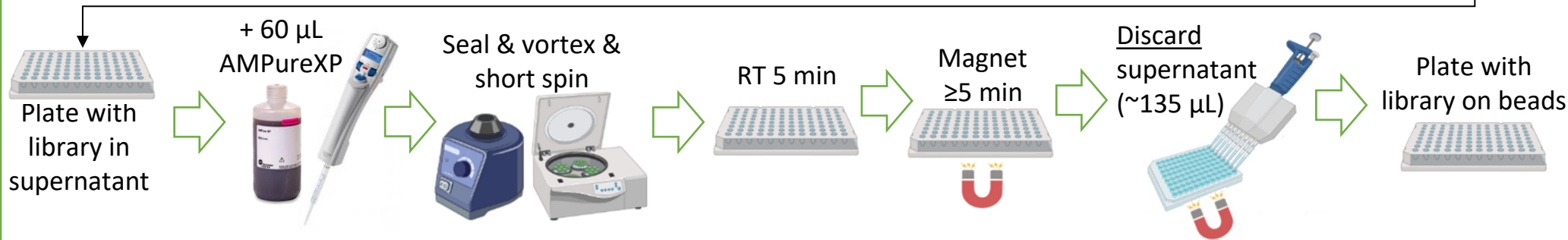
## 7. 2<sup>nd</sup> Clean-up



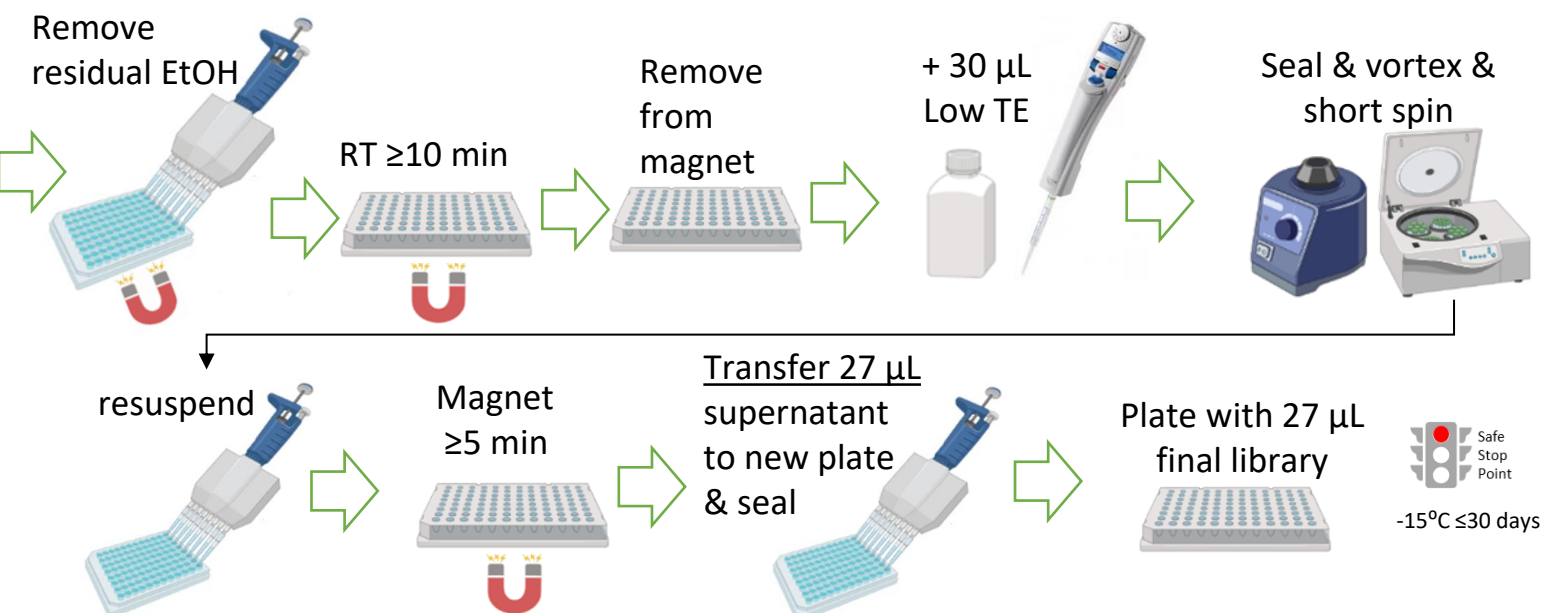
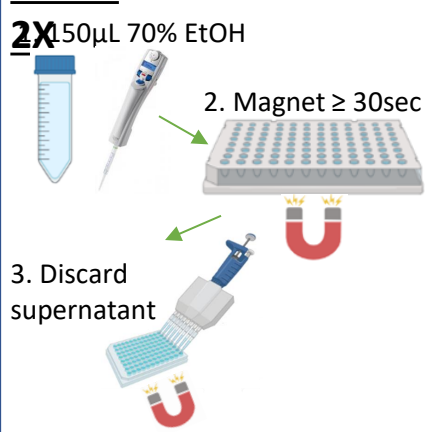
### FIRST ROUND



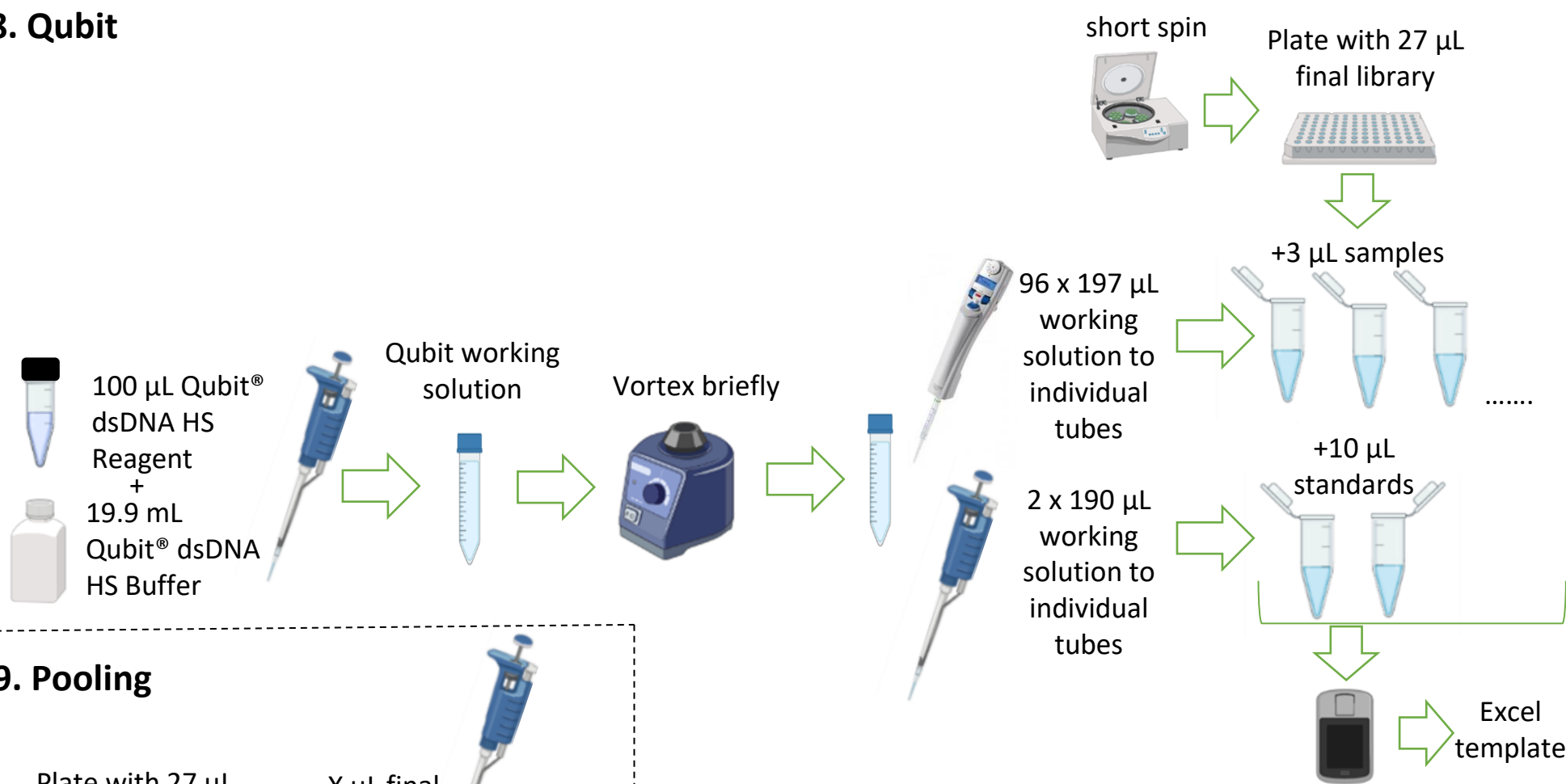
### SECOND ROUND



### WASH



## 8. Qubit



## 9. Pooling

