Digestion

Stefano Varricchio - EPFL iGEM 2010

 $July\ 21,\ 2010$

Where	On iGEM wetbench	
	Quantity	What
	$\overline{1-5\mu g}$	DNA (volume depends on concentration!)
Material needed	The volume 10% Tot.V 1% Tot.V 5% Tot.V ddH_2O	of DNA should be 50% of the Total Volume(Tot.V) Buffer 2 (10×) BSA (100×) Each restriction enzyme to reach the Tot.V
Steps		
	1. Calculate the DNA prep volume	
	2. by knowing that the total volume is the double of the DNA prep volume, calculate the volumes of Buffer 2, BSA, restriction enzymes, and $\rm ddH_2O$.	
	3. Sometimes the volume of BSA is really small and will not be possible to pipett it. In those cases dilute the solution to obtain BSA($100\times$), and take 10% Tot.V instead 1% Tot.V. Adapt then the ddH ₂ o volume.	
	4. Mix everything together, the enzymes should be added last.	
	5. keep th	e solution at 37° for 1-2 hours.
Warnings		

 \bullet Enzymes has to be added as the last thing!