

## DNA - Restriction



Pipettor (20:200),  
tips (yellow code)  
Eppendorf-tubes  
rack  
ice-box  
lab timer



Label tubes for double  
digest as:  
E1, E2, E12, C, H<sub>2</sub>O,  
Buffer or for single digest:  
H<sub>2</sub>O, B(uffer), E(nzym)  
and negative C(ontrol)



prepare H<sub>2</sub>O in Epi-tube  
for use in restriction  
reaction



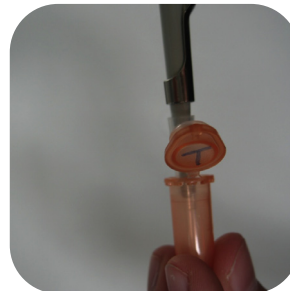
Enzymes wait on ice  
for action!



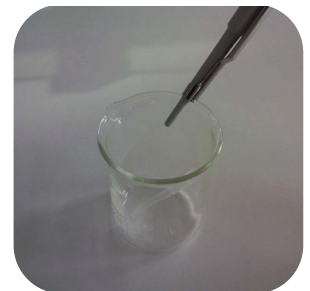
Place reaction-tubes into  
rack,  
carefully watch samples,  
do not mix them up.



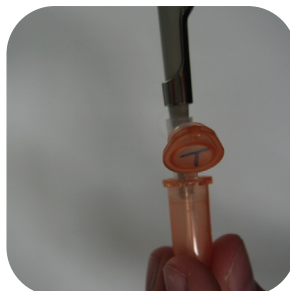
Adjust pipettor to  
correct volume and use  
proper tip (color code!)  
See pipetting scheme for  
proceeding.



Pipettierschema				
	K	E1	E2	E1+E2
DNA	5µl	5µl	5µl	5µl
buffer 10x	2µl	2µl	2µl	2µl
H <sub>2</sub> O	13µl	12µl	12µl	11µl
E1	-	1µl	-	1µl
E2	-	-	1µl	1µl



Always use a new tip!  
Carefully comply with  
Labchart „How to do  
pipetting successfully“



Touch Epi-tube always  
at the brim only to avoid  
warming of the contents.  
DO NOT act as shown!  
Pipetting into the lid is  
an accepted procedure.



Collect pipetted amounts  
of liquid by short spinning  
DO NOT forget to balance  
the rotor by an equal  
counterweight



Adjust incubator to 37°C  
prior to the whole  
procedure



Incubate for 30 min  
and store on ice until  
proceeding or  
freeze at -20°C for long  
term stock