**Created by Yongtao Zhu (Spring 2021)**

**Protocol for DNA Digestion**

1. Label two microcentrifuge tubes with
2. Plasmid name + enzyme name
3. Primer name (PCR product) + enzyme name
4. Assemble reagents in the following order (the volumes may be adjusted according to the concentration of your samples):
* 35 µl purified PCR product (typically from a 50 µl reaction) or 5 µl plasmid (if conc. is 200 ng/µl or close)
* 5 µl buffer CutSmart
* 8 µl (for PCR product) or 38 µl (for plasmid) autoclaved ddH2O
* 1 µl enzyme 1 (HF) and 1 µl enzyme 2 (HF)

 Total volume in each tube should be 50 µl

1. Flick the tubes a few times (don't vortex). Spin down tube for 5 seconds in the micro-centrifuge.
2. Incubate at 37°C for 1-3 hours.
3. Purify the DNA using the DNA purification kit and elute the DNA in 25 µl of elution buffer.