

## **In-situ: Pepsin/ HCL digestion**

**9/3/13 NAA**

### **Supplies:**

- Hydrochloric Acid (HCl)
- Pepsin
- 4L glass Beaker
- Stir bar

### **Personal Protective Equipment:**

- Lab coat
- Safety glasses /goggles
- Chemical rubber gloves (provided in lab)

### **Procedure:**

1. Turn on water bath to 37°C.
2. Add ~1L of distilled water (dH<sub>2</sub>O) into a 4L glass beaker. Make sure to include a stir bar.
3. Place beaker on stir plate and turn on. Add 25mL HCl to beaker, making sure to rinse the graduated cylinder with dH<sub>2</sub>O.
4. Weigh 3g pepsin into a weigh boat. Add to the beaker and rinse the weigh boat.
5. Add additional 3L of dH<sub>2</sub>O and mix thoroughly.
6. Set beaker into “warm” water bath.
7. Once solution is warm, put the in-situ (duodenal) bags in the beaker.
8. Stir the in-situ bags approximately every 15 minutes, for a total of **3 hours**.
9. Remove bags from beaker. Wearing gloves, press out the liquid from the bags.
10. Sort and store in the freezer if not immediately analyzing the samples.