

## **Resinating DOC samples**

Ion exchange resin that is in the cardboard bin needs to be “activated” before using it. It takes about 1 – 1.5 L of resin to add to 4 L DOC sample.

### **Ion exchange resin activation:**

In large cooking pot:

- Add 3.6 L of resin
- Add 2 L of deionised water and stir with stainless steel spoon (as first rinse)
- Pour off water (use strainer)
- Then use about 600 ml of 4 N HCl (enough to cover the resin)
- Let sit for about 5 min, stirring a few times with spoon
- Rinse 5 times with about 2 L deionised water each time (use strainer to pour off water)
- Then rinse 5 times with about 2 L of Epure water
- Remove and store resin in Nalgene container
- Now ready for use

### **To Resinate DOC:**

For about 4 L of DOC, add about 1 to 1.5 L of prepared resin (this will bring pH down). Keep adding resin until the pH drops to around 2 or until it doesn't seem to make much difference by adding more. Somewhere around pH 2 should get most metals and cations off the DOC and onto the resin. Strain out resin and let the resin dry in a bucket for a few days and then discard in garbage. Store DOC in plastic container(s) in the fridge, avoid exposing to light for long periods of time.