

## Available P

1. Take resin bag that was saved from unfumigated tube and extract with 100ml of 0.5M HCl and let sit for 1 hour, loosely capped (to allow for out gassing).
2. After 1 hour, filter samples using Whatman GF/A filters and suc-vac system.
3. Save filtrate in two 5ml plastic test tubes labeled "AV-P A" and "AV-P B".
4. Store samples in the refrigerator until they can be processed.

Diluting 0.5M HCl:

Start with 12M of concentrated HCl

$$(C1)(V1) = (C2)(V2)$$

$$(0.5M\ HCl)(1,000ml) = (12M\ HCl)(V2)$$

$$\frac{(0.5M\ HCl)(1,000ml)}{(12M\ HCl)} = 41.67\ ml\ 12M\ HCl$$

Dilute 41.67 ml of 12M HCl with DI H<sub>2</sub>O into a 1,000ml volumetric flask.

## Recharging Anion Resins

NOTE: Do not charge or recharge resins more than 24 hours before intended use. Resins must be charged before they are used!

1. Rinse anion resin bags well with DI H<sub>2</sub>O. (a colander works well for this)
2. Place resins and 0.5M NaHCO<sub>3</sub> in a 1 liter nalgene bottle.
3. Cap and place on the shaker at low speed for 10 minutes.
4. After shaking, pour out NaHCO<sub>3</sub> and rinse bags well with DI H<sub>2</sub>O (use colander)
5. Repeat this entire process 2 more times.
6. After charging, seal resins in a plastic bag until they are needed.

Mixing 0.5M NaHCO<sub>3</sub>:

$$F.W = 84.01\ g\ NaHCO_3/M$$

Multiply F.W. by desired molarity

$$84.01\ g\ NaHCO_3/M \times 0.5M\ NaHCO_3 = 42.005\ g\ NaHCO_3/L\ DI\ H_2O$$

So, weigh out 42.005 g NaHCO<sub>3</sub> per 1 liter DI H<sub>2</sub>O