

## FIELD FILTRATION FOR SOLUBLE METALS/NUTRIENTS

### Filter Kit

The filter kit contains

- 50mL plastic syringe
- One pair of Med-x co-polymer film large gloves
- 100mL plastic bottle (FN100) containing 0.5mL nitric acid
- Advantec 50mm
- 0.45 $\mu$ m cellulose acetate Labodisc [CAT #50CP045AN]

### Instructions

1. Ensure hands are clean and free of dirt then carefully slip the plastic gloves provided onto each hand.
2. Using the syringe suck 3-5 mL of the sample up into the barrel. If sample volume permits extrude about 5 mL of sample to waste to rinse the filters. It would be good practice to use this to rinse the syringe and then discard this first volume of sample to waste. **Note:** remove only the caps at each end of the filter.
3. Collect a second volume of 40-50 mL of sample and attach the filter as per diagram.



4. Uncap the 100 mL bottle and position the bottom of the filter over the mouth of the bottle.  
**Note:** Avoid the lid from getting contaminated by placing back into the plastic bag the container and syringe were delivered in. This will avoid dust contamination from the surrounding environment.



6. Fill the bottle if possible. For samples that are difficult to filter we require at least 30 mL (reduced sample volume may limit the range of tests able to be performed and the level of associated Quality Control)
7. Immediately cap the bottle and label it, place it into the plastic zip lock bag ready to be transported in a chilly bin.