



## Determination of the Concentration of Multiple Ions in Hydroponics Samples

### Required Apparatus:

CleanGrow's multi-ion probe  
CleanGrow's handheld portable meter

### Required chemicals:

CleanGrow's multi-ion conditioning solution  
CleanGrow's HORTICULTURE multi-ion calibration solutions  
Deionised water

### Sample Preparation:

Typically, it is not a requirement to filter a hydroponics sample.

### Calibration:

Before use the multi-ion probe must be conditioned in CleanGrow's multi-ion conditioning solution. Ensure the correct calibration solutions for a three-point calibration are set up on the handheld meter. Follow the instructions for calibration and proceed to take a sample reading when the calibration data is 'very good' or 'good' for all ions.

### Sample Reading:

Place the probe in the aqueous extract and 'Take a Sample' reading. The concentrations for each ion will be displayed in ppm or mmol / L.