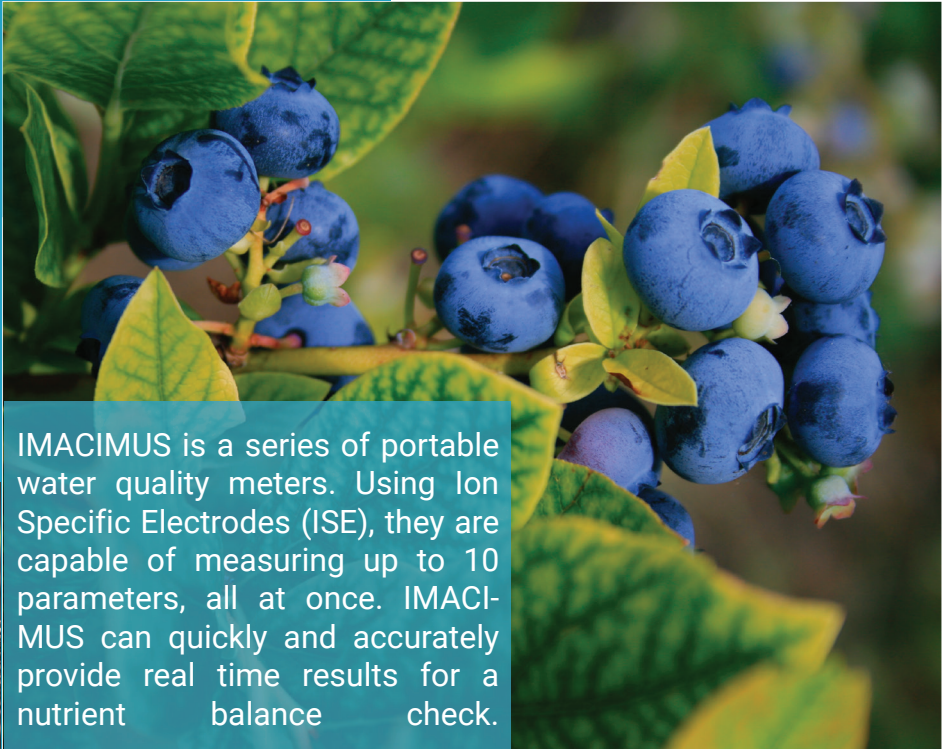


i Measurement of Nutrients in Sap



IMACIMUS is a series of portable water quality meters. Using Ion Specific Electrodes (ISE), they are capable of measuring up to 10 parameters, all at once. IMACIMUS can quickly and accurately provide real time results for a nutrient balance check.

Introduction

Typically, Atomic Absorption (AA) or Inductivity Coupled Plasma-Optical Emission Spectrometry (ICP-OES) is used to measure ions in plant cell sap. These are the methods performed in laboratories.

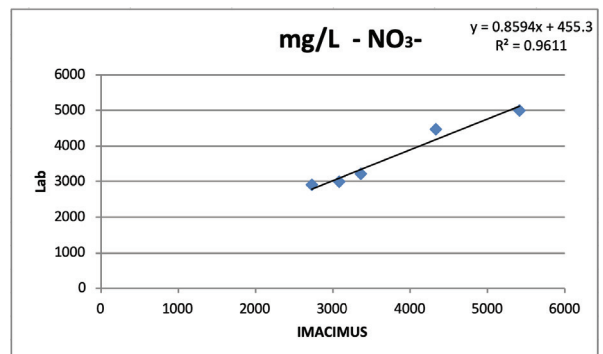
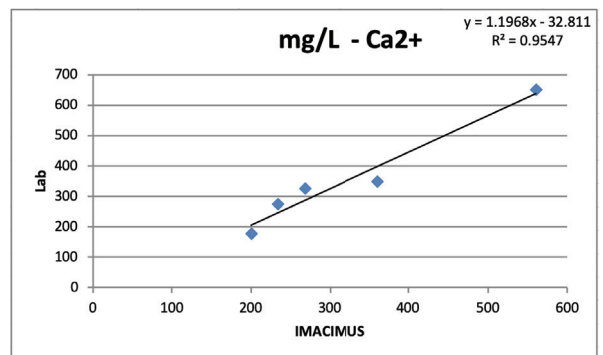
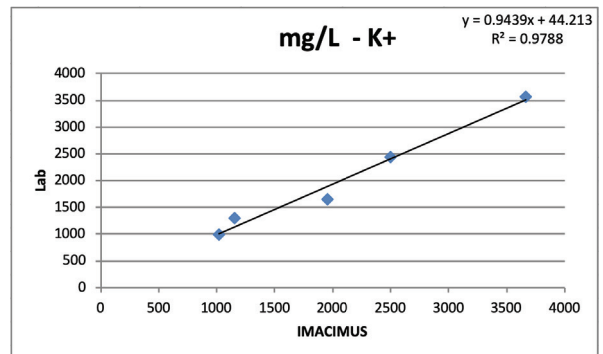
A simpler method for a rapid measurement of ions in plant cell sap, uses the IMACIMUS Multi-Ion Meter. The following procedure explains how you can measure nutrients with good correlation to analytical lab tests.

Method

1. Chop the sample into portions of about 2 cm in length.
2. Weigh 10 gr. sample and introduce them into a garlic presser.
3. Press the sample with the press, collecting the sap obtained in a container: Exercise similar pressure for all samples. Channel the extracted liquid with a funnel, to the container.
4. With the help of a graduated syringe, take 2 ml of sap and transfer it to a small glass. Add 20ml of deionized water. Other dilution factors or volumes according to the user's criteria.
5. Homogenize the content with the help of a rod or spatula.
6. The sample is ready for analysis.
7. The equipment value mg / L corresponds to the dilution made.

Results & Benefits

The IMACIMUS equipment is validated against a third-laboratory. Two different techniques (Ion Selective Electrode – IMACIMUS), and Atomic Absorption are compared. N=15. The data shows the correlation obtained between two techniques.

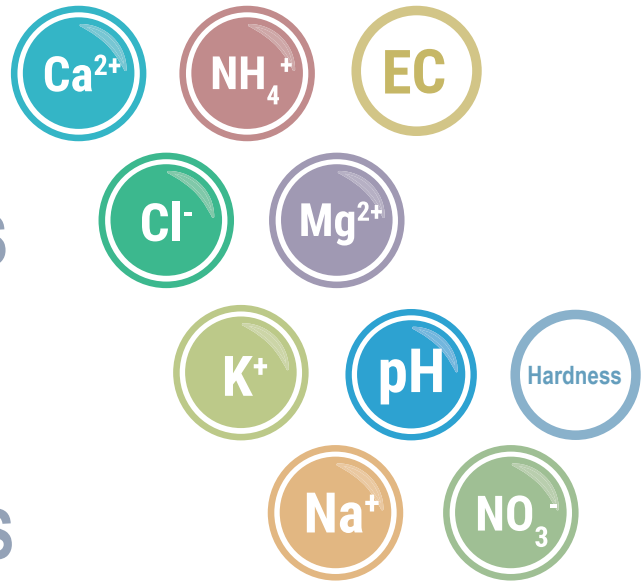


Portable Multi ION Meter IMACIMUS

1 ONLY
DEVICE

10 SIMULTANEOUS
PARAMETERS

60 SECOND
RESULTS



IMACIMUS brings Carbon Nanotube patented technology.



NT Sensors' Ion Selective Electrodes with carbon nanotubes allows for new possibilities of sampling in situ, with laboratory correlation.

Featuring seven replaceable electrodes, you can replace individually in just two easy steps.

Calibrate in only 5 minutes - measure as many samples necessary.

Using our free software, calibrate with just a few clicks. Our standard solutions reassures you of your measurement accuracy. One point re-calibration option available for best accuracy.



The IMACIMUS portable case, brings the lab, to your hands.

The portable carry case, has everything you need to get started. Includes additional space for spare electrodes, so nothing can stop you on the field.

IMACIMUS SERIES

IMACIMUS 3
2 ions & pH Meter

IMACIMUS 5
4 ions & pH Meter

IMACIMUS 10
7 ions, pH, EC* & WH Meter

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