

PRECISION & ACCURACY
ANALYTICAL
GRADE
SOLUTIONS



pH BUFFER 4

The ideal pH range for a nutrient solution is typically between 5.8 and 6.5. A pH value above or below this range can increase the likelihood that some nutrients become unavailable to the plant. A pH value of 6.3 typically works well for most plants.

Some electronic meters require a 'two point' calibration. pH BUFFER 4 is important as the lower calibration point in the two point calibration process. This will ensure that meters accurately reflect the true reading at the lower end of the range.

pH BUFFER 7

pH BUFFER 7 is important as the upper calibration point in the 'two point' calibration of electronic meters. Regularly calibrate your pH meter with both pH BUFFER 4 and pH BUFFER 7 calibration solutions to ensure that your meter is operating with precision and accuracy between pH 4 and 7.

Monitor the pH on a daily basis. As plants grow, demand for nutrients increase. This means the pH can fluctuate and therefore should be tested and adjusted to maintain an optimum working nutrient solution. Nutrient requirements vary from plant to plant; therefore the ideal pH varies from plant to plant also.

CONDUCTIVITY 2.76

It is essential to calibrate your EC (electrical conductivity) meter with CONDUCTIVITY 2.76 solution regularly. The measurement of available nutrient in the solution is measured as the electrical conductivity. The units used to report the readings are millisiemens per centimetre (mS/cm), Conductivity Factor (cF) or parts per million (ppm).

The conductivity increases with nutrient strength. Distilled or deionised water will give a near zero reading. As a general guide for hydroponics: 1mS/cm = 10cF = 700ppm. Nutrient requirements vary from plant to plant; therefore the ideal conductivity varies from plant to plant also.



SOLUTIONS SCIENTISTS USE

HY-GEN® Calibrations solutions are made according to international standards. The pH ELECTRODE STORAGE and PROBE CLEANER solutions are the same quality as those used in laboratories for the safe cleaning and storage of electronic meters. All calibration and care solutions are made using high quality analytical grade constituents.

HY-GEN® is the mark of guaranteed quality. All formulations and procedures have been prepared under careful supervision by our qualified chemist who has more than 25 years experience.

PACK SIZES AVAILABLE

Code	Description	Box
B4025	250mL	20
B4050	500mL	12
B4100	1L	12

PACK SIZES AVAILABLE

Code	Description	Box
B7025	250mL	20
B7050	500mL	12
B7100	1L	12

PACK SIZES AVAILABLE

Code	Description	Box
EC025	250mL	20
EC050	500mL	12
EC100	1L	12

DID YOU KNOW?

We believe that pH Buffer calibration solutions should only contain the purest analytical grade ingredients without any artificial dyes. That is why our solutions are clear!