

pH CONTROL KIT

Bringing Nature and Technology Together



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for a balanced nutrient solution

pH control is essential for stimulating vigorous plant growth. Nutrient solution pH that is too high (basic), or too low (acidic), cannot be properly absorbed by plants. Incorrect nutrient solution pH can cause slow growth, sickly plants and low yields.

The pH scale measures acidity or alkalinity on a scale of 0 to 14. Below 7.0, the pH is acidic. Above 7.0, the pH is alkaline(basic). 7.0 is "neutral". The best pH for plant growth is generally in the range of 5.5 to 6.5 -- slightly acidic.

There are several causes for incorrect nutrient solution pH. Tap water used to mix nutrient solution often contains minerals and impurities that can affect nutrient pH. Rapidly growing plants consume different nutrients at different rates, thus altering the solution's original pH. Growing media such as RockWool or

construction grade aggregate (pea gravel and shale) can dissolve slowly, greatly affecting the nutrient pH and causing it to rise or fall significantly.

By maintaining nutrient pH within the range of 5.5 to 6.5, you can assure your crop "maximum availability" of all nutrient minerals. This will give you higher growth rates, higher yields, and healthier plants --- healthy plants are more resistant to insect infestation and disease.

Test and adjust nutrient solution pH after mixing fresh hydroponic solution (or fertilizer for soil cultivation) and again every few days to maintain correct pH. For best results, discard and replace hydroponic solution regularly.

SPREADSHEET

DIRECTIONS: Fill test vial halfway with nutrient solution. Add 3 - 5 drops of pH test indicator and tap vial to mix contents. Compare color in vial to pH color chart to determine nutrient pH.

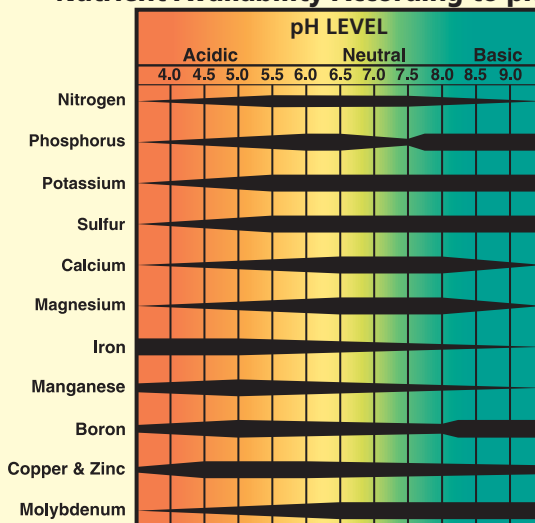
Yellow to Yellowish-Green indicates the ideal pH range for plant growth (5.5 to 6.5).

If the test indicates any orange or red -- the pH is too low (below 5.5), add pH UP (Base) to raise nutrient pH.

If the test indicates any blue-green or blue -- the pH is too high (above 6.5), add pH DOWN (Acid) to lower nutrient pH.

Repeat test to verify that pH is now within the correct range (5.5 - 6.5).

Nutrient Availability According to pH



5.5 - 6.5 Ideal pH for plant growth

CAUTION
KEEP OUT OF REACH OF CHILDREN

pH UP and pH DOWN can cause skin irritation. Flush from skin or eyes with plenty of water. See warnings on pH UP and pH DOWN labels for further information.

Manufactured by



GENERAL HYDROPONICS

PO Box 1576, Sebastopol, CA 95473, USA

genhydro.com



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