

# HYDROPONICS OUTFITS

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Hydroponic culture is the growing of plants in a controlled environment with nutrient solutions, but without the use of soil as the supporting medium. Plant roots are fed directly, which is in contrast to conventional growing methods where plant food is applied to the soil and the roots extract the nutrients from the soil. Plants are either grown directly in nutrient solutions with only structural support or in beds through which nutrient solutions are periodically recirculated. Unlike field crops, hydroponically grown plants can be grown at great densities and with less concern about diseases initiated in soils or by insects and weeds. Hydroponics has played a significant role in modern plant nutrition research. Scientists are able to isolate the effects of essential minerals on various stages of plant growth and to study the effects of single element deficiencies under controlled conditions.

## Hydroponics 4-In-1 Test Kit

Model HP-1 · Code 3561-01 · LQ [7] · Reagent Refill · Code R-3561 · LQ [2]

An abbreviated version of our popular Model AM-41, the new Model HP-1 offers tests for pH and three key nutrient factors: nitrogen, phosphorus and potassium. It allows the hydroponic hobbyist to maintain proper nutrient balance and to achieve optimum growing conditions in soil-less cultures. Reagents sufficient for 50 tests per factor and complete labware are foam-mounted in a sturdy carrying case. Instructions and 75-page Hydroponics Handbook are supplied.

Octa-Slide 2 Comparator Tests	
pH	pH 4.5-8.0
Nitrate Nitrogen	5-200 ppm*
Phosphorus	3-30 ppm

By dilution

Direct Reading Turbidity Tube	
Potassium	0-250 ppm



## pH Hydroponics Test Kit

Model HPH · Code 5074-01 · R1 [1] · Reagent Refill · Order 5132-G · R1 [1]



Code 5074-01

Simply add pH indicator reagent to the sample solution in a test tube for a color reaction. The resulting color is read in an Octa-Slide 2 Comparator with permanent color standards for pH values of 4.8, 5.2, 5.6, 6.0, 6.4, 6.8, 7.2 and 7.6. The kit has sufficient reagent for 50 tests and is packaged in a sturdy, hinged box.

