



backpacklab.com



Test kits can be replaced individually



Backpack Lab® Soil Quality Educational Test Kit

Backpack Lab Soil Quality Educational Test Kit Includes:

- Agriculture combination test kit for testing nitrogen, phosphorus, potassium (N,P,K) with enough materials for 50 tests of each parameter
- Hanna's HI98129 Combo pH/EC/TDS/temperature tester
- Hanna's HI145 digital thermometer
- Backpack carrying case which holds all components of the kit
- Teacher's manual with a curriculum that meets National Science Teachers Association Standards
- Parameter summary in PDF and PowerPoint format (on included CD)
- Laminated, laboratory instruction cards with step-by-step field test procedures
- Reproducible lab activity worksheets with instructions, goals, hypothesis and testing procedure results/observations (on included CD)
- A glossary of key terms in PDF format (on included CD)

Hanna introduces a kit specifically assembled for the educator and environmental science student. Using the popular Hanna Agricultural Combination Test Kit (HI3896) as its foundation, the Soil Quality Education Test Kit is designed to provide a complete lesson plan for teachers. Teachers are able to introduce students to important chemical tests for evaluating soil quality and fertility, and relate these measurements to the principles of plant metabolism. Tied together by an extensive teacher's guide, this kit includes in-depth background information about each parameter, classroom activities designed to introduce students to each parameter and field-testing procedures.

The Hanna Agricultural Combination Test Kit addresses important issues related to soil quality and modern agriculture practices. Real-world examples help students understand the relevance of macronutrients and other parameters in everyday life. This kit introduces the student to all major soil quality topics, and is presented in an easy-to-use format that makes lessons accessible, understandable and memorable.

Specifications	HI3896BP Backpack Lab Soil Quality Test Kit				
Test	Type	Range	Method	Number of Tests	Individual Kit Reorder Code
Nitrogen	colorimetric	traces, low, medium, high	Ned	25	HI3896-025
Phosphorus	colorimetric	traces, low, medium, high	ascorbic acid	25	HI3896-025
Potassium	turbidimetric	traces, low, medium, high	tetraphenylborate	25	HI3896-025
pH	colorimetric	4 to 9 pH (1 pH increments)	pH indicators	25	HI3896-025
Specifications	HI98129 Combo pH/EC/TDS/Temperature Tester				
Type	Range	Resolution	Accuracy	Calibration	
pH	0.00 to 14.00 pH	0.01 pH	±0.05 pH	automatic, one or two-point with two sets of standard buffers (pH 4.01 / 7.01 / 10.01 or 4.01 / 6.86 / 9.18)	
Conductivity	0 to 3999 µS/cm	1 µS/cm	±2% F.S.	automatic, one point at 1413 µS/cm	
TDS	0 to 2000 mg/L (ppm)	1 mg/L (ppm)	±2% F.S.	automatic, one point at 1382 mg/L (ppm)	
Temperature	0.0 to 60.0°C / 32.0 to 140.0°F	0.1°C / 0.1°F	±0.5°C / ±1°F	-	
Specifications	HI145-00 T-Shaped Thermometer				
Type	Range	Resolution	Accuracy	Probe	
Temperature	-50.0 to 220°C	0.1°C (-50.0 to 199.9°C); 1°C (200 to 220°C)	±0.3°C (-20 to 90°C); ±0.4% F.S. (outside)	stainless steel probe; 125 mm x dia 5 mm (4.9 x dia 0.2")	
Ordering Information	HI3896BP Backpack Lab test kit includes agriculture test kit pro, HI98129 Combo pH/EC/TDS/temperature tester, HI145 digital thermometer, set of 6 field test procedures, teacher's resource CD, teacher's guide and backpack				
Reagents and Solutions only	HI3896-025 nitrogen, phosphorus, potassium and pH, 25 tests each HI70004P pH 4.01 buffer solution for HI98129, 20 mL sachets (25) HI70007P pH 7.01 buffer solution for HI98129, 20 mL sachets (25) HI70010P pH 10.01 buffer solution for HI98129, 20 mL sachets (25) HI70031P 1413 µS/cm conductivity calibration solution for HI98129, 20 mL sachets (25) HI70032P 1382 mg/L (ppm) TDS calibration solution for HI98129, 20 mL sachets (25)				



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