Soil Test Kit Garden Guide

Model EL/EM • Code 5679/5934

Quantity (EL/EM)	Contents	Code
120 mL/250 mL	pH Indicator	5701
120 mL/250 mL	*Nitrogen Extracting Solution	*5702
10 g/30 g	*Nitrogen Indicator Powder	*5703
120 mL/250 mL	*Phosphorus Extracting Solution	*5704
15 mL/15 mL	*Phosphorus Indicator Reagent	*5705
25/50	*Phosphorus Test Tablets	*5706
120 mL/250 mL	Potassium Extracting Solution	5707
25/50	Potassium Indicator Tablets	5708
15 mL/2 x 15 mL	Potassium Test Solution	5709
7/10	Test Tubes, 1-8 mL, plastic w/ caps	0755
1/1	Brush, test tube	0514
3/3	Pipets, transfer, plastic	0364
1/1	Spoon, 0.25 g, plastic	0695
1/1	Spoon, 0.5 g, plastic	0698
1/1	Color Chart, Nitrogen	1371
1/1	Color Chart, Phosphorus	1372
1/1	Color Chart, Potassium, End Point	1352
1/1	Color Chart, pH, Wide Range	1353
1/1	Garden Guide Manual	500
1/1	Study of Soil Science	1530
1/1	LaMotte Soil Handbook	1504

*WARNING: Reagents marked with a * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents see MSDS CD or www.lamotte.com. To obtain a printed copy, contact LaMotte by email, phone or fax.

To order individual reagents or test kit components, use the specified code number.

WARNING! This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision

Proper handling of chemical test equipment

This test equipment is designed to provide years of dependable service. Following these suggestions will help increase equipment performance:

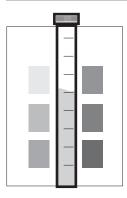
- 1. Carefully follow all instructions.
- 2. Do not handle tablets; dispense from cap to test tube.
- 3. Carefully wash and rinse all apparatus used.
- 4. Tighten reagent caps immediately after use. Do not interchange caps.
- 5. Avoid prolonged exposure to direct sunlight.
- 6. Avoid temperature extremes.
- 7. Anticipate your requirements for replacement reagents.
- 8. Keep all reagent containers out of reach of young children.
- 9. Reagents marked with an * are considered potential health hazards. Read MSDS on CD or at www.lamotte.com before use.

Read the Garden Guide Manual

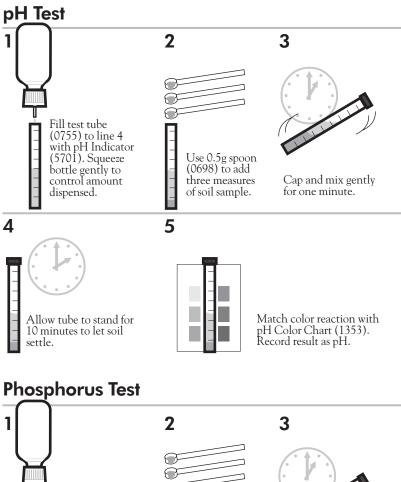
The accompanying Garden Guide Manual provides:

- 1. Instructions on the proper collection and preparation of soil samples
- 2. Essential information for interpretation of test results
- 3. Lime and fertilizer recommendations
- 4. A soil test record form.

Reading the Color Charts



When matching a test color to a color chart, stand with the light source behind the observer and hold the test tube approximately one-half inch away from the color chart. If the color of a test reaction falls between two standard colors on a color chart, the mid-point between the two standard values is taken as the test result. For example, a pH test color reaction falling between the standard colors for pH 4.0 and pH 5.0 represents a test result of pH 4.5. In the other tests color reactions may either match, fall between, or fall beyond the three standard colors representing "Low," Medium," and "High." Therefore seven different test results are possible: Very Low, Low, Medium Low, Medium, Medium High, High, and Very High.

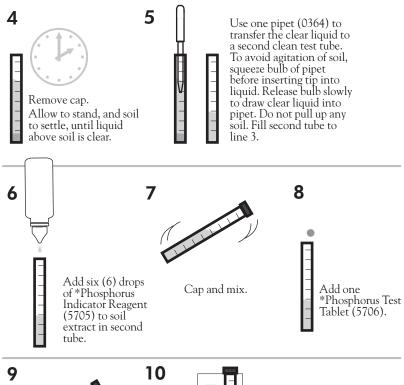


Fill test tube (0755) to line 6 with *Phosphorus Extracting Solution (5704). Use 0.5g spoon (0698) to add three (3) measures of soil sample.

Cap and mix gently

for one minute.

Phosphorus Test, continued



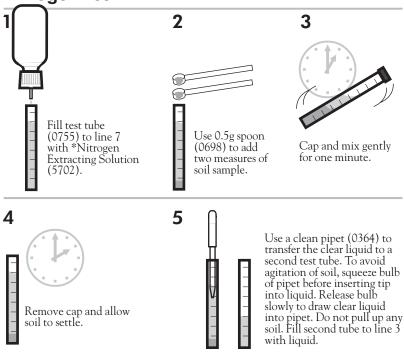


Cap and mix until tablet dissolves. A blue color will develop.



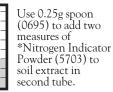
Match color reaction with Phosophorus Color Chart (1372). Record result as Phosphorus. Low 0-50 lb/acre Medium 50-100 lb/acre High +100 lb/acre

Nitrogen Test





6



7



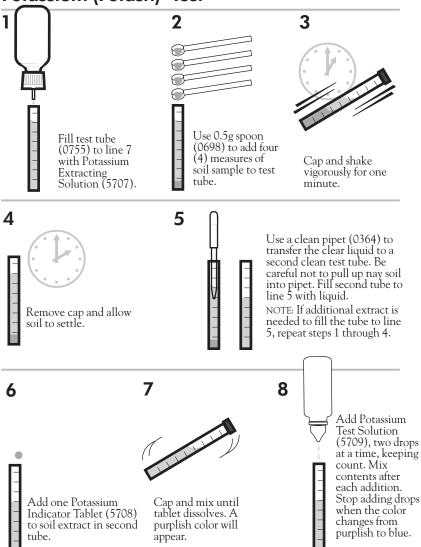
Cap and gently mix. Wait 5 minutes for pink color to develop above the powder.

10

Match test color with Nitrogen Color Chart (1371). Record as Nitrogen.

Low 0-30 lb/acre Medium 30-60 lb/acre High +60 lb/acre

Potassium (Potash) Test



Potassium (Potash) Test, continued

9

Use Potassium End Point Color Chart (1352) as a guide in reading this color change. Keep an accurate count of the number of drops added. Read test result from table.

Number of Drops Added	Potassium (Potash) Level
0-8	Very High
10	High
12	Medium High
14	Medium
16	Medium Low
18	Low
20 or more	Very Low
Low	0-120 lbs/Acre
Medium	120-200 lbs/Acre
High	+200 lbs/Acre



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