



## PHOSPHORUS MODULE

FOR SOIL MACRONUTRIENTS KIT • CODE 5928-01

COLOR CHART, 10-200 lb/a

CODE 5931-01

QUANTITY	CONTENTS	CODE
120 mL	*Universal Extracting Solution	*5173PS-J
120 mL	*Universal Extracting Solution	*5173PT-J
30 mL	*Phosphorus Reagent #2	*5156-G
50	*Phosphorus Test Tablets	*5157A-H
1	Pipet, plain, glass, w/cap	0341
1	Filter Paper, 50 pk	0465-H
1	Funnel, plastic	0459
1	Test Tube, 1-8 mL, plastic, w/cap	0755
2	Test Tubes, Phosphorus B, w/caps	0244
1	Test Tube, plastic, filtrate	0749
1	Spoon, 0.5 g	0698
1	Color Chart, Phosphorus	1312

\*WARNING: Reagents marked with an \* are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to [www.lamotte.com](http://www.lamotte.com). To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

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

For a discussion of the importance of phosphorus, read the handbook, *A Study of Soil Science* (Code 1530) by Dr. Henry D. Foth.

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.

## PROCEDURE

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NOTE: This test is very sensitive to contamination. The work area, materials and hands should be clean. Avoid exposure to fertilizer dust.

1. Fill a test tube (0755) to line 7 with \*Universal Extracting Solution (5173).
2. Use the 0.5 g spoon (0698) to add four level measures of soil. Cap tube and shake for one minute.

NOTE: When adding samples with high concentrations of carbonates to \*Universal Extracting Solution (5173), swirl tube to mix for 30 seconds before capping to allow gases to escape.

3. Fold a piece of filter paper (0465) in half. Fold in half again. Gently push corners together to form a cone. Place cone in funnel (0459).
4. Place funnel in clean filtrate tube (0749) and filter suspension through the filter paper. The clear solution is the extract used in the test.
5. Fill the Phosphorus "B" Tube (0244) to the mark with the soil extract.
6. Add 6 drops of \*Phosphorus Reagent #2 (5156) Swirl to mix.
7. Add one \*Phosphorus Test Tablet (5706A). Cap and swirl until the tablet disintegrates.
8. Remove cap. Hold tube ½" above the white area of the Phosphorus Color Chart (1312). Looking down through the solution, match sample color to a color standard. Record as lbs/acre phosphorus. The color comparison should be done in natural light.

NOTE: Do not allow the solution to stand for more than 10 minutes before making the color comparison.

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