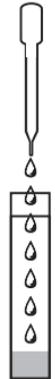


Phosphorus

1.

Use the pipet to transfer 25 drops of the clear solution above the soil to a square test tube.



2.

Fill the tube to the shoulder with **DISTILLED WATER**.



3.

Add one Phosphorus Tablet (5422A). Cap and mix until the tablet disintegrates. Wait 5 minutes for the color to develop.



4.

Compare the blue color of the solution to the Phosphorus Color Chart.

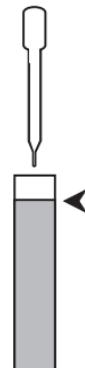
L = 8 lb A/6" soil
M = 20 lb A/6" soil
H = 64 lb A/6" soil



Potassium

1.

Use the pipet to transfer the clear solution above the soil to a square test tube until it is filled to the shoulder.



2.

Add one Potassium Tablet (5424A). Cap and mix until the tablet disintegrates.



3.

Compare the cloudiness of the solution in the test tube to the Potassium Color Chart. Hold the tube over the black boxes in the left column and compare it to the shaded boxes in the right column.

L = 40 lb A/6" soil
M = 80 lb A/6" soil
H = 160 lb A/6" soil



 LaMotte

soil

N • P • K

kit

CODE 3-5880

This kit conforms with the specifications of the GLOBE Program®.

Visit the GLOBE home page at:
www.globe.gov

LaMOTTE COMPANY
PO Box 329 • Chestertown • MD • 21620 • USA
800-344-3100 • 410-778-3100
www.lamotte.com

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.

Shopping List

-  Distilled water (400 mL / 1 pint for 10 tests)
-  Timer (clock or watch)
-  Plastic teaspoon

Soil Sampling & Preparation



- Use a clean trowel, spoon, or dull knife to loosen the soil.
- Collect the soil from the desired depth.
- Collect several small samples from a single place and mix them together to get an "average" sample.
- Collect a total of about 1 cup of soil.
- Spread the soil sample out on a sheet of plastic wrap.
- Allow it to dry overnight if possible.
- Pick out any large leaves, stones or sticks and crush any lumps. The dried soil may be passed through a sieve or a piece of screen.



1 cup



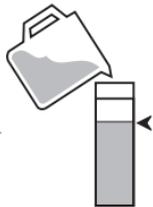
GLOBE, The GLOBE Program, and the GLOBE logo are trademarks of the U.S. Government. Use of these trademarks and certification by this company that its products conform to the specifications of The GLOBE Program do not imply endorsement of this company or its products by the U.S. Government.

*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. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

Extraction

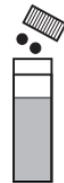
1.

Fill the round extraction tube to the 30mL line with **DISTILLED WATER**.



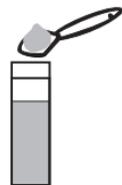
2.

Add two *Floc-Ex Tablets (5504A). Cap the tube and mix until the tablets have disintegrated.



3.

Remove the cap. Add one heaping teaspoon of soil.



4.

Cap the tube and shake for one minute.



5.

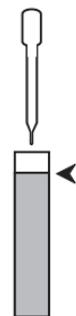
Let the tube stand until the soil settles out. The clear solution above the soil will be used for the Nitrate, Phosphorus, and Potassium tests.



Nitrogen

1.

Use the pipet to transfer the clear solution above the soil to a square test tube until it is filled to the shoulder.



2.

Add one *Nitrate WR CTA Tablet (3703A). Immediately slide the tube into the Protective Sleeve (0106-FP).



3.

Cap and mix by inverting for two minutes to disintegrate the tablet. Bits of material may remain in the sample.



4.

Wait 5 minutes for the color to develop. Remove tube from Protective Sleeve. Compare the pink color of the solution to the Nitrogen Color Chart.

- L = 40 lb A/6" soil
- M = 160 lb A/6" soil
- H = 320 lb A/6" soil



NOTE: Nitrate Wide Range CTA TestTabs (3703A) are sensitive to UV light. The Protective Sleeve (0106-FP) will protect the reaction from UV light. If testing indoors, there is no need to use the Protective Sleeve in this procedure.