

NPK SOIL KIT

Kit de análisis de suelo NPK | Kit d'analyse du sol NPK

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.

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Code 3-5880

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.

LaMotte

Kit Contents

Qty	Description	Code
100	*Floc-Ex TestTabs®	*SS04A-J
50	*Nitrate Wide Range TestTabs®	*3703A-H
50	Phosphorus TestTabs®	5422A-H
50	*Potassium TestTabs®	*5424A-H
1	Tube, plastic, round, w/cap	0725
3	Test tube, 2.5-5-10 mL, w/cap	0106
2	Protective sleeve	0106-FP
1	Pipet, plastic	30444
1	Color Chart, N-P-K	1382

To reorder individual reagents or test kit components, use the specified code numbers.

***WARNING:** Reagents marked with an * are considered to be potential health hazards. To view or print a Safety Data Sheet (SDS) for these reagents go to www.lamotte.com. Search for the four digit reagent code number listed on the reagent label. In the contents list or in the test procedures. Omit any letter that follows or precedes the four digit code number. For example, if the code is 4450MT-H, search 4450. To obtain a printed copy, contact LaMotte by email, phone or fax.

Emergency information for all LaMotte reagents is available from Chem-Tel: (US, 1-800-255-3924) [International, call collect, 813-248-0585].

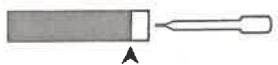
Extraction

- 1 Fill the round extraction tube (0725) to the 30mL line with DISTILLED WATER.
- 2 Add two *Floc-Ex Tablets (SS04A). 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 (30444) to transfer the clear solution above the soil to a square test tube [0106] until it is filled to the shoulder.



2

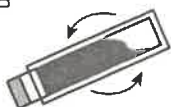
Add one *Nitrate WR CTA Tablet (3703A). Immediately slide the tube into the Protective Sleeve [0106-FP].

NOTE: Nitrate Wide Range CTA TestTads (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.



3

Cap and mix by inverting for 2 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 (1382).

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



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Potassium

1

Use the pipet (30444) to transfer the clear solution above the soil to a square test tube [0106] 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 (1382). Hold the tube over the black boxes in the left column and compare it to the shaded boxes in the right column.



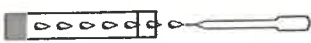
L = 40 lb/ A/6" soil
M = 80 lb/ A/6" soil
H = 160 lb/ A/6" soil

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Phosphorus

1

Use the pipet (30444) to transfer 25 drops of the clear solution above the soil to a square test tube [0106].



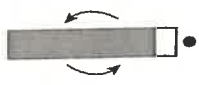
2

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 (1382).

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



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