



NITROGEN MODULE

FOR SOIL MACRONUTRIENTS KIT • CODE 5928-01

COLOR CHART, 10-150 lb/a

CODE 5930-01

QUANTITY	CONTENTS	CODE
120 mL	*Universal Extracting Solution	*5173PS-J
120 mL	*Universal Extracting Solution	*5173PT-J
30 mL	*Nitrate Reagent #1	*5146-G
30 g	*Nitrate Reagent #2 Powder	*5147-G
2	Spoon, 0.5 g, plastic	0698
1	Pipet, 1.0 mL, plastic	0354
1	Rod, plastic, stirring	0519
1	Spot Plate, double, plastic	0159
1	Funnel, plastic	0459
3	Test Tubes, 1-8 mL, plastic, w/cap	0755
1	Pipet, plain, plastic, w/cap	0392
1	Filter Paper, 50 pk	0465-H
1	Test Tube, filtrate, plastic	0749
1	Nitrate-Nitrogen Color Chart	1315

*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.

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

For a discussion of the importance of nitrate-nitrogen, see of *A Study of Soil Science* (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

1. Fill a test tube (0755) to line 7 with *Universal Extracting Solution (5173).
2. Use 0.5 g spoon (0698) to add four level measures of soil. Cap 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.
5. Use the 1 mL pipet (0354) to transfer 1 mL of soil extract to one of the depressions on the spot plate (0159).
6. Use pipet (0392) to add 10 drops of *Nitrate Reagent #1 (5146).
7. Use the 0.5g spoon (0698) to add one measure of *Nitrate Reagent #2 (5147). Stir thoroughly with plastic rod. Wait five minutes.
8. Match sample color to a color standard on Nitrate-Nitrogen Color Chart (1315). Record as lb/acre nitrate-nitrogen.

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