



NITROGEN MODULE

CODE 5930

FOR MODEL AM-31 • CODE 5928

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
1	Spoon, 0.5g, plastic	0698
1	Soil, measure, plastic	0819
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 see MSDS CD or our web site. To obtain a printed copy, contact us by e-mail, phone or fax.

For a discussion of the importance of nitrate-nitrogen, see of *A Study of Soil Science* (1530) by Dr. Henry D. Foth.

PROCEDURE

1. Fill a test tube (0755) to line 7 with *Universal Extracting Solution (5173).
2. Use soil measure (0819) to add one level measure 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).
5. Use pipet (0392) to add 10 drops of *Nitrate Reagent #1 (5146).
6. Use the 0.5g spoon (0698) to add one measure of *Nitrate Reagent #2 (5147). Stir thoroughly with plastic rod. Wait five minutes.
7. Match sample color to a color standard on Nitrate-Nitrogen Color Chart (1315). Record as lb/acre nitrate-nitrogen.

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