

NITRATE-N/PHOSPHATE KIT

Code 3119-01 | Low Range Comparator

 LaMotte

QUANTITY	CONTENTS	CODE
120 mL	*Mixed Acid Reagent	*V-6278-J
5 g	*Nitrate Reducing Reagent	*V-6279-C
2 x 30 mL	*Phosphate Acid Reagent	*V-6282-G
5 g	Phosphate Reducing Reagent	V-6283-C
3	Test Tubes, 2.5-5-6.5-10 mL, glass, w/ 2 caps	0844
2	Spoons, 0.1 g, plastic	0699
1	Pipet, 1 mL, plastic	0354
1	Cap, Dispenser	0692
1	Low Range Comparator Viewer	1102
1	Nitrate-N & Phosphate Low Range Comparator Bar	3120-01



*Reagent is a potential health hazard. **READ SDS:** lamotte.com

Emergency information:

Chem-Tel USA 1-800-255-3924
Int'l, call collect, 813-248-0585



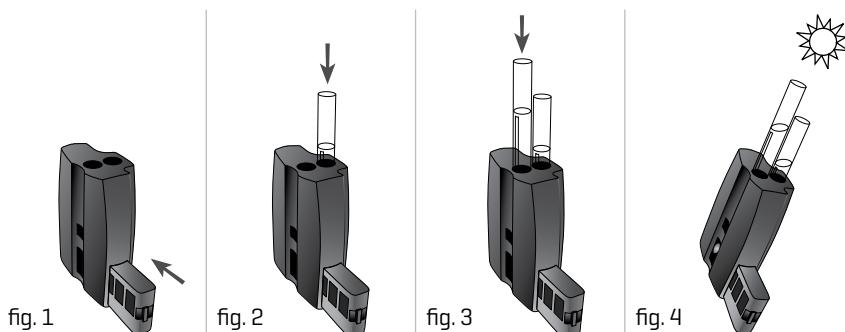
NOTE: Place Dispenser Cap [0692] on
*Mixed Acid Reagent [V-6278]. Save
Dispenser Cap for reagent refills.

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

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.

USE OF THE LOW RANGE COMPARATOR

The Low Range Comparator allows extremely faint colors to be matched to color standards by viewing the reaction down the length of the tube increasing the path length by ten times compared to comparators that view the reaction across the diameter of the tube.



1. Slide the Low Range Comparator Bar into the Low Range Comparator Viewer [fig.1].
2. Fill a test tube to the 10 mL line with untreated sample water. Insert it in the rear hole on the top of the Low Range Comparator [fig.2].
3. Fill a test tube with sample water. Follow the test procedure. Remove the cap. Insert the tube in the front hole on the top of the Low Range Comparator [fig.3].
4. Position the comparator so that light shines down through the test tubes [fig.4]. Tilt the comparator until the color standards and sample are illuminated. Match the color of the reaction to the color standards. Read the result from the Low Range Comparator Bar.

PROCEDURE

NITRATE (RANGE 0.2 - 1.0 ppm)

NOTE: Nitrites can cause serious interference in this nitrate test and should be determined separately and compensated for if present. The best results are obtained when solution temperatures are close to 23°C.

1. Slide the Nitrate-N & Phosphate Comparator Bar [3120-01] into the Low Range Comparator Viewer [1102]. Fill a test tube [0844] to the 10 mL line with sample water. Place in Low Range Comparator.
2. Fill test tube [0844] to 2.5 mL line with sample water.
3. Dilute to 5 mL line with *Mixed Acid Reagent [V-6278]. Cap and mix. Wait 2 minutes.
4. Use the 0.1g spoon [0699] to add one level measure (avoid excess) of *Nitrate Reducing Reagent [V-6279]. Cap and invert 60 times in one minute. Wait 10 minutes.
5. Mix and remove cap. Insert test tube into the Low Range Comparator [1102]. Match sample color to a color standard. Record as ppm Nitrate-N.
6. To convert result to nitrate, multiply reading by 4.4. Record as ppm Nitrate.

PHOSPHATE (RANGE 0.2 - 1.0 ppm)

This test determines levels of orthophosphates only.

NOTE: This test should be run on clear samples only. Filter sample if necessary. The best results are obtained when solution temperatures are close to 23°C.

1. Slide the Nitrate-N & Phosphate Low Range Comparator Bar [3120-01] into the Low Range Comparator Viewer [1102]. Fill a test tube [0844] to the 10 mL line with sample water. Place in Low Range Comparator.
2. Fill test tube [0844] to 10 mL line with sample water.
3. Use the 1.0 mL pipet [0354] to add 1.0 mL of *Phosphate Acid Reagent [V-6282]. Cap and mix.
4. Use second 0.1g spoon [0699] to add one level measure of Phosphate Reducing Reagent [V-6283]. Cap and mix until dissolved. Wait 5 minutes.
5. Remove cap. Place tube in the Low Range Comparator. Match sample color to a color standard. Record as ppm Orthophosphate.