



## NITRATE/NITRITE KIT

OCTA-SLIDE 2, 0.25-10.0 ppm

CODE 3519-01

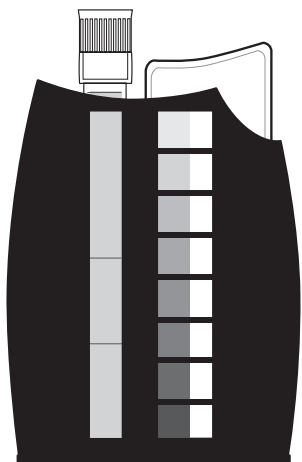
QUANTITY	CONTENTS	CODE
2 x 120 mL	*Mixed Acid Reagent	*V-6278-J
5 g	*Nitrate Reducing Reagent	*V-6279-C
5 g	*Color Developing Reagent	*V-6281-C
2	Spoons, 0.1g, plastic	0699
3	Test Tubes, 2.5-5-10 mL, w/caps, plastic	0106
1	Water Sample Bottle	0688
1	Dispenser Cap	0692
1	Nitrate-N Octa-Slide 2 Bar, 0.25-10.0 ppm	3109-01
1	Octa-Slide 2 Viewer	1101

**\*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](http://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.

**NOTE:** Place Dispenser Cap (0692) on \*Mixed Acid Reagent (V-6278). Save this cap for refill reagents.

### USE OF THE OCTA-SLIDE 2 VIEWER



The Octa-Slide 2 Viewer should be held so non-direct light enters through the back of the Viewer. Insert the reacted sample into the top of the Viewer. Slide the Octa-Slide 2 Bar into the Viewer and match the color of the reaction to the color standards.

**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.

Nitrites can cause serious interference in the Nitrate test. To obtain the actual nitrate-nitrogen concentration, follow Procedures A & B. Subtract the nitrite reading obtained in Procedure B (as ppm nitrate-nitrogen) from the nitrate reading obtained in Procedure A (as nitrate-nitrogen).

The best results are obtained when the sample and reagents are at  $23 \pm 2^{\circ}\text{C}$ .

### **PROCEDURE A - NITRATE TEST**

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1. Fill sample bottle (0688) with sample water.
2. Fill test tube (0106) to the 2.5 mL line with water from the sample bottle.
3. Dilute to the 5.0 mL line with \*Mixed Acid Reagent (V-6278). Cap and mix. Wait two minutes.
4. Use the 0.1 g spoon (0699) to add one level measure (avoid any excess) of \*Nitrate Reducing Reagent (V-6279). Cap and invert the tube 50-60 times in one minute. Wait 10 minutes.
5. Insert the Nitrate-N Octa-Slide 2 Bar (3109-01) into the Octa-Slide 2 Viewer (1101).
6. Insert the test tube into the Octa-Slide 2 Viewer.
7. Match sample color to a color standard. Record as ppm Nitrate-Nitrogen.
8. To convert to ppm Nitrate ( $\text{NO}_3$ ), multiply the test result by 4.4.

NOTE: To obtain the actual nitrate concentration, follow with Procedure B and subtract the nitrite reading from the reading obtained in the nitrate test.

NOTE: Thoroughly clean and rinse test tubes after each use.

### **PROCEDURE B - NITRITE TEST**

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1. Fill the sample bottle (0688) with sample water.
2. Fill test tube (0106) to the 2.5 mL line with water from the sample bottle.
3. Dilute to the 5.0 mL line with \*Mixed Acid Reagent (V-6278). Cap and mix.
4. Use the 0.1 g spoon (0699) to add one level measure (avoid any excess) of \*Color Developing Reagent (V-6281). Cap and invert the tube 50-60 times in one minute. Wait 10 minutes.
5. Insert the Nitrate-N Octa-Slide 2 Bar (3109-01) into the Octa-Slide 2 Viewer (1101).
6. Insert the test tube into the Octa-Slide 2 Viewer.
7. Match sample color to a color standard. Record as ppm Nitrite as Nitrate-Nitrogen.
8. Use the following table to convert reading to Nitrite-Nitrogen. Record as ppm Nitrite-Nitrogen.

<b>Comparator Reading</b>	<b>Divide By</b>
<b>0.5 or less</b>	<b>3.5</b>
<b>0.5-1.5</b>	<b>4.6</b>
<b>over 2.0</b>	<b>5.8</b>

NOTE: If the nitrate-nitrogen reading is higher than 10.0 the sample can be diluted 1:1 with nitrate and nitrite free water, the test run and the resultant value obtained multiplied by 2.

NOTE: Thoroughly clean and rinse test tubes after each use.

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