

# NITRATE/NITRITE KIT

Code 3519-01 | Octa-Slide 2, 0.25-10.0 ppm



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

\*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



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 OCTA-SLIDE 2 VIEWER

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 ±2°C.

### PROCEDURE A - NITRITE TEST

1. Insert the Nitrate-N Octa-Slide 2 Bar [3109-01] into the Octa-Slide 2 Viewer [1101].
2. Fill sample bottle [0688] with sample water.
3. Fill test tube [0106] to the 2.5 mL line with water from the sample bottle.
4. Dilute to the 5.0 mL line with \*Mixed Acid Reagent [V-6278]. Cap and mix. Wait two minutes.
5. 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.
6. Insert the test tube into the Octa-Slide 2 Viewer. Hold the Viewer so that non-direct light enters through the back.
7. Match sample color to a color standard. Record as ppm Nitrate-Nitrogen.
8. To convert to ppm Nitrate [NO3], 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. Thoroughly clean and rinse test tubes after each use.

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**PROCEDURE B - NITRITE TEST**

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- 1. Insert the Nitrate-N Octa-Slide 2 Bar [3109-01] into the Octa-Slide 2 Viewer [1101].
- 2. Fill the sample bottle [0688] with sample water.
- 3. Fill test tube [0106] the 2.5 mL line with water from the sample bottle.
- 4. Dilute to the 5.0 mL line with \*Mixed Acid Reagent [V-6278]. Cap and mix.
- 5. 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.
- 6. Insert the test tube into the Octa-Slide 2 Viewer. Hold the Viewer so that non-direct light enters through the back.
- 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.

Comparator Reading	Divide By
0.5 or less	3.5
0.5-1.5	4.6
over 2.0	5.8

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. Thoroughly clean and rinse test tubes after each use.