

## **Orthophosphate Test Kit** PO-14 (147500)

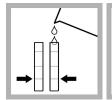
DOC326.97.00077

## **Test preparation**

CAUTION: A Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

- Put the color disc on the center pin in the color comparator box (numbers to the front).
- Use sunlight or a lamp as a light source to find the color match with the color comparator box.
- Rinse the tubes with sample before the test. Rinse the tubes with deionized water after the test.
- If the color match is between two segments, use the value that is in the middle of the two segments.
- If the color disc becomes wet internally, pull apart the flat plastic sides to open the color disc. Remove the thin inner disc. Dry all parts with a soft cloth. Assemble when fully dry.
- To verify the test accuracy, use a standard solution as the sample.
- Read the results within 15 minutes after the reagents are added.

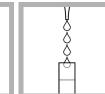
## Test procedure—Orthophosphate (0-4,4 mg/L PO<sub>4</sub>)



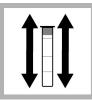
1. Fill two tubes to 2. Put one tube the first line (5 mL) into the left with sample.



opening of the color comparator box.



3. Add 4 drops of Ammonium Molvbdate Reagent to the second tube.



**4.** Put the stopper **5.** Add one on the second tube. Shake to mix.



Phosphate 2 Reagent Powder Pillow to the second tube.



Replacement items

Color comparator box

Water, deionized

Glass viewing tubes, 18 mm

Dropper, glass, 0.5- and 1.0-mL marks

Ammonium Molybdate Reagent

Phosphate 2 Phosphate Reagent Powder Pillows

Color disc, phosphate, 0-4.4 mg/L and 0-44 mg/L

Stoppers for 18-mm glass tubes and AccuVac Ampuls

Description

on the second tube. Invert to mix until the reagent is dissolved. A blue color develops.



**6.** Put the stopper **7.** Put the second tube into the color comparator box.



8. Hold the color comparator box in front of a light source. Turn the color disc to find the color match.



Unit

100 mL MDB

100/pka

each

each

6/pkg

6/pkg

100 mL

5/pkg

Item no.

11032H

106199

9266600

173200

173006

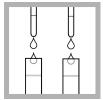
173106

27242

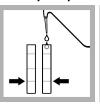
1419705

9. Read the result in ma/L in the scale window.

## Test procedure—Orthophosphate (0-44 mg/L PO<sub>4</sub>)



1. Use the dropper to add 0.5-mL of sample to two tubes.



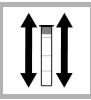
2. Fill the two tubes to the first line (5 mL) with deionized water.



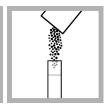
3. Put one tube into the left opening of the color comparator box.



Ammonium Molybdate Reagent to the second tube.



**4.** Add 4 drops of **5.** Put the stopper on the second tube. Shake to mix.



6. Add one Phosphate 2 Reagent Powder Pillow to the second tube.



on the second tube. Invert to mix until the reagent is dissolved. A blue color develops.



7. Put the stopper 8. Put the second 9. Hold the color tube into the color comparator box.



comparator box in front of a light source. Turn the color disc to find the color match.



10. Read the value in the scale window. Multiply the value by 10 to get the result in mg/L.

