

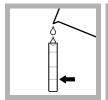
DOC326 97 00057

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
- 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.
- The 20-minute reaction time in the test procedure is applicable to samples at 25 °C (77 °F). For colder samples, wait more than 20 minutes. For warmer samples, wait less than 20 minutes. Make the color match when the prepared sample is blue. If the sample is red or purple, wait until the sample is blue. If the reaction time is too long, the sample becomes blue-green and a color match is not possible.
- This test kit measures only free cyanide. To measure total cyanide, which includes cyanide complexes (copper, cobalt, iron and nickel cyanides), distill the sample. Refer to the Water Analysis Handbook or Standard Methods for the Examination of Water and Wastewater. Use the distilled sample in the test procedure.

Test procedure—Cyanide (0-0.3 mg/L CN⁻)



1. Fill a tube to the first line (5 mL) with sample.



2. Put the tube into the left opening of the color comparator box.



3. Fill a bottle to the shoulder with sample.



4. Add one HexaVer CDTA Reagent Powder Pillow. Swirl to mix.



5. Add one CvaniVer 3 Cyanide Reagent Powder Pillow Swirl to mix.



Replacement items

Bottle, square, 29 mL

Color comparator box

Funnel, poly, 65 mm

Clippers

HexaVer[™] CDTA Powder Pillows

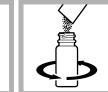
Color disc, cyanide, 0-0.3 mg/L

Filter paper, 2-3 micron, pleated, 12.5 cm

Glass viewing tubes, glass, 18 mm

Description

6. Wait 1 minute.



CyaniVer® 3 Cyanide Reagent Powder Pillows, 25-mL

CyaniVer® 4 Cyanide Reagent Powder Pillows, 25-mL

CyaniVer® 5 Cyanide Reagent Powder Pillows, 25-mL

Stoppers for 18-mm glass tubes and AccuVac Ampuls

7. Add one CvaniVer 4 Cyanide Reagent Powder Pillow Swirl to mix. Go immediately to the next step.



8. Add one CvaniVer 5 Cyanide Reagent Powder Pillow Swirl to mix.



Unit

100/pkg

100/pkg

100/pkg

100/pkg

6/pkg

each

each

each

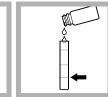
100/pkg

each

6/pkg

6/pkg

9. Wait 20 minutes. A blue tube to the first line color develops if cvanide is in the sample. Read the result within 26 minutes.



Item no.

1403969

1404099

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24399

43906

9267100

173200

96800

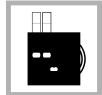
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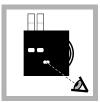
10. Fill a second (5 mL) with the prepared sample.



11. Put the second tube into the color comparator box.



12. Hold the color 13. Read the comparator box in front of a light source. Turn the color disc to find the color match.



result in mg/L in the scale window.

Filtration procedure for turbid samples

If the sample is turbid, filter the sample through filter paper. Use the filtered sample in the test procedure. Record the test result as soluble cyanide.



1. Put the filter paper in the funnel. Put the funnel on a bottle.



2. Pour enough sample into the funnel to fill the bottle to the shoulder.



3. Put the funnel on a second bottle. Pour a minimum of 5 mL of sample into the funnel.