



Hexavalent Chromium Test Kit

CH-8 (183400)

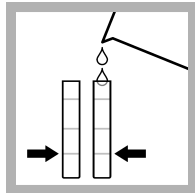
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Test preparation

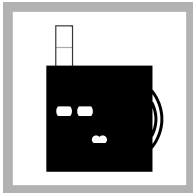
CAUTION: Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

- Put the color disc on the center pin in the color comparator box (numbers to the front).
- Use the indoor light color disc when the light source is fluorescent light. Use the outdoor light color disc when the light source is sunlight.
- 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.
- Undissolved reagent does not have an effect on test accuracy.
- To record the test result as mg/L CrO_4^{2-} , multiply the test result by 2.23. To record the test result as mg/L Na_2CrO_4 , multiply the test result by 3.12.
- To verify the test accuracy, use a standard solution as the sample. To prepare a 1-mg/L Cr^{6+} standard solution, make a 1:50 dilution of a 50-mg/L chromium hexavalent standard solution.

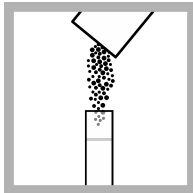
Test procedure—Chromium (0–1.3 mg/L Cr^{6+})



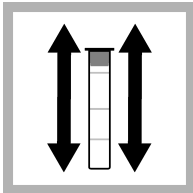
1. Fill two tubes to the first line (5 mL) with sample.



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



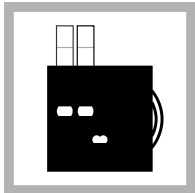
3. Add one ChromaVer 3 Chromium Reagent Powder Pillow to the second tube.



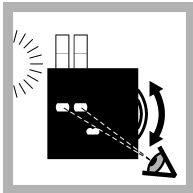
4. Put a stopper on the tube. Shake to mix. A purple color develops.



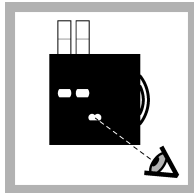
5. Wait 5 minutes. Read the result within 20 minutes.



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



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



8. Read the result in mg/L in the scale window.

Replacement items

Description	Unit	Item no.
ChromaVer® 3 Chromium Reagent Powder Pillows, 5 mL	100/pkg	1271099
Color disc, chromium, indoor light, 0–1.3 mg/L	each	9265300
Color disc, chromium, outdoor light, 0–1.3 mg/L	each	9267400
Color comparator box	each	173200
Glass viewing tubes, glass, 18 mm	6/pkg	173006
Stoppers for 18-mm glass tubes and AccuVac Ampuls	6/pkg	173106

Optional items

Description	Unit	Item no.
Chromium hexavalent standard solution, 50.0 mg/L Cr^{6+}	100 mL	81042H
Water, deionized	500 mL	27249

