




Chromate Test Kit

CH-14 (222702)

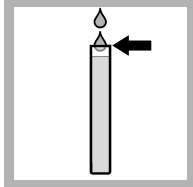
DOC326.97.00110

Test preparation

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

- Hold the dropper vertically above the sample. Do not let the dropper touch the bottle during the titration.
- Rinse the measuring tube, bottle or flask with sample before each test. Rinse with deionized water after each test.
- To record the test result as mg/L chromium (Cr), multiply the chromate result by 0.45. To record the test result as mg/L sodium chromate (Na_2CrO_4), multiply the chromate result by 1.4.

Test procedure—Chromate ($0\text{--}100\text{ mg/L CrO}_4^{2-}$)



1. Fill the measuring tube with sample.



2. Pour the sample into the mixing bottle.



3. Add one Sulfamic Acid Powder Pillow. Turn the bottle left and right to mix.



4. Add one Potassium Iodide Powder Pillow. Turn the bottle left and right to mix.



5. Add one or two drops of Starch Indicator Solution. Swirl to mix. A blue color develops.



6. Add the Sodium Thiosulfate Standard Solution by drops. Mix after each drop. Count the drops until the color changes from blue to colorless.



7. Multiply the total number of drops by 5 to get the result in mg/L.

Replacement items

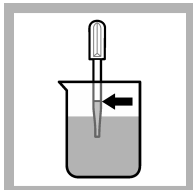
NOTE: Product and Article numbers may vary for some selling regions. Contact the appropriate distributor or refer to the company website for contact information.

Description	Unit	Item no.
Potassium Iodide Powder Pillows	100/pkg	107799
Sodium Thiosulfate Standard Solution, 0.0113 N	100 mL MDB	2409032
Starch Indicator Solution	100 mL MDB	34932
Sulfamic Acid Powder Pillows	100/pkg	105599
Bottle, square, glass, 29 mL	6/pkg	43906
Dropper, plastic	each	217500
Measuring tube, plastic, 5.83 mL	each	43800

Optional items

Description	Unit	Item no.
Water, deionized	500 mL	27249

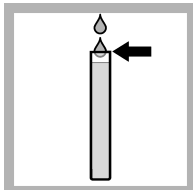
Test procedure—Chromate (0–1000 mg/L CrO₄²⁻)



1. Fill the dropper to the mark with the sample.



2. Add the sample to the mixing bottle.



3. Fill the measuring tube with deionized or distilled water.



4. Pour the water into the mixing bottle.



5. Swirl to mix.



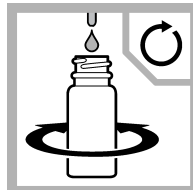
6. Add one Sulfamic Acid Powder Pillow. Turn the bottle left and right to mix.



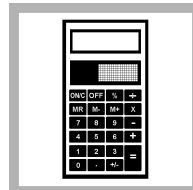
7. Add one Potassium Iodide Powder Pillow. Turn the bottle left and right to mix.



8. Add one or two drops of Starch Indicator Solution. Swirl to mix. A blue color develops.



9. Add the Sodium Thiosulfate Standard Solution by drops. Mix after each drop. Count the drops until the color changes from blue to colorless.



10. Multiply the total number of drops by 50 to get the result in mg/L.

