LCK 213 Chromic acid

DOC312.53.94033

Measuring range I: 0.5–5.0 g/L CrO_3, Measuring range II: 50–450 g/L CrO_3 LCK 213

Scope and application: For galvanic chromium baths.

Test preparation

Test storage

Storage temperature: 15–25 °C (59–77 °F)

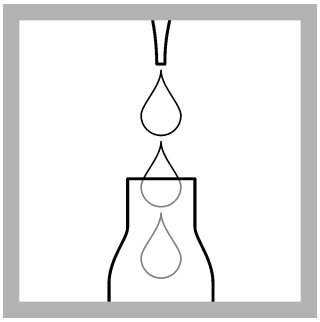
Temperature

The temperature of the water sample and reagents must be between 15–25 °C (59–77 °F).

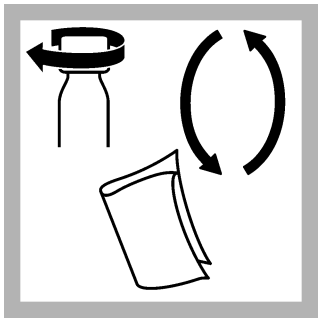
Before starting

High chromium concentrations (more than 350 g/L) cause turbidity when the preliminary dilution is carried out with solution A (LCK 213 A). In this case distilled water must be used instead of solution A (LCK 213 A).
The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).
Review safety information and expiration date on the package.
Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.
Dispose of reacted solutions according to local, state and federal regulations. Refer to the Safety Data Sheets for disposal information for unused reagents. Refer to the environmental, health and safety staff for your facility and/or local regulatory agencies for further disposal information.

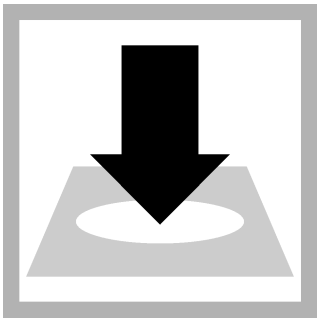
Procedure measuring range I



1. Carefully pipet **0.2 mL** of **sample**.

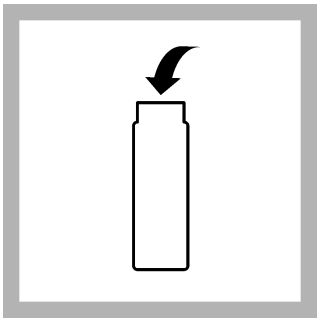


2. Close the cuvette and invert a few times, thoroughly clean the outside of the cuvette and evaluate.

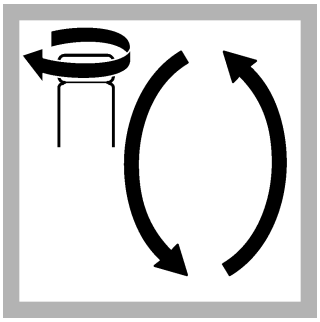


3. Insert the cuvette into the cell holder.
DR 1900: Go to LCK/TNTplus methods. Select the test, push **READ**.

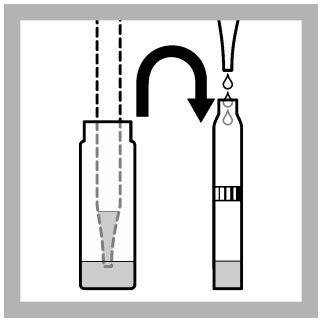
Procedure measuring range II



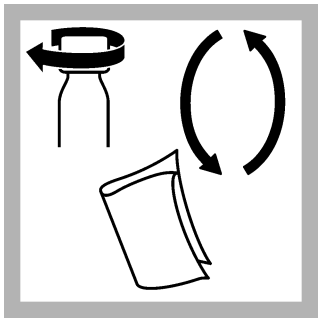
1. Preliminary dilution (1:20) Add to a dry reaction tube: **3.8 mL** of **solution A** and **0.2 mL** of **sample**.



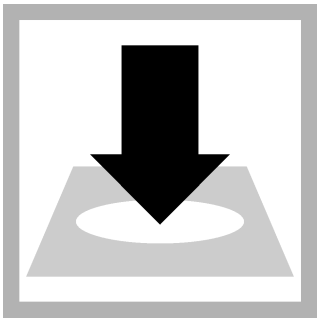
2. Close the reaction tube and invert a few times.



3. Carefully pipet into the Cuvette Test: **0.2 mL** of **prediluted sample**.



4. Close the cuvette and invert a few times, thoroughly clean the outside of the cuvette and evaluate.



5. Insert the cuvette into the cell holder.
DR 1900: Go to LCK/TNTplus methods.
Select the test, push **READ**.

Summary of method

Chromic acid (Chromium trioxide – CrO_3) dissolves in dilute acids, forming chromates with an intensive yellow color. The yellow color is evaluated photometrically.

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