LCK654 Sulphite

DOC312.53.94062

Method

0.1–5.0 mg/L SO_3 **LCK654**

Scope and application: For boiler water and drinking water.

Test preparation

Test storage

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

Protect against light.

pH/Temperature

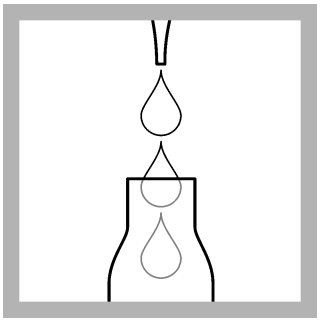
The pH of the water sample must be between pH 3–10.

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

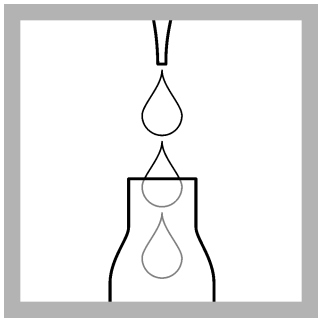
Before starting

The samples must be analyzed immediately after they have been taken.
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.

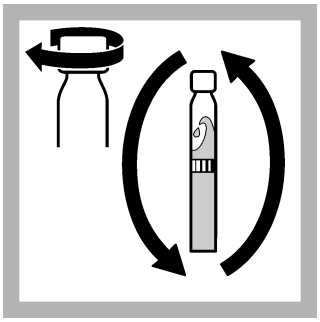
Procedure



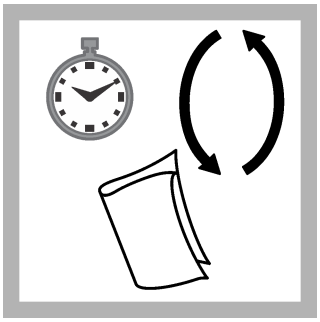
1. Carefully pipet **0.2 mL** of **solution A**.



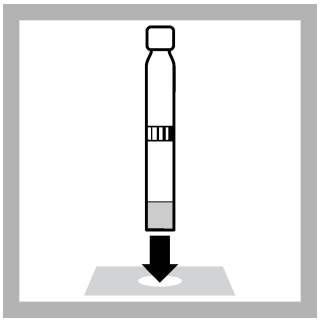
2. Carefully pipet **5.0 mL** of **sample**.



3. Close the cuvette and invert a few times.



4. After **3 minutes**, invert a few more times, thoroughly clean the outside of the cuvette and evaluate.



5. Insert the cuvette into the cell holder.
DR1900: Go to LCK/TNTplus methods.
Select the test, push **READ**.

Interferences

The ions listed in the table have been individually checked against the given concentrations and do not cause interference. The cumulative effects and the influence of other ions have not been determined.

A sulphide concentration of ≥ 5 mg/L in the sample to be analysed gives results with a slightly high bias.

The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).

Interference level	Interfering substance
1000 mg/L	K^+, Na^+, SO_4^{2-}, PO_4^{3-}, CO_3^{2-}
100 mg/L	Ca^{2+}, MoO_4^{2-}
50 mg/L	Ni^{2+}
25 mg/L	Zn^{2+}

Summary of method

The reagent reacts with sulphites to form a yellow complex.

HACH LANGE GMBH
Willstätterstraße 11
D-40549 Düsseldorf
Tel. +49 (0) 2 11 52 88-0
Fax +49 (0) 2 11 52 88-143
info-de@hach.com
www.hach.com

© Hach Company, 2019, 2025. All rights reserved.
08/2025, Edition 2