LCK328 Potassium

DOC312.53.94046

Method

8–50 mg/L K^+ **LCK328**

Scope and application: For raw and drinking water, soil, substrates, nutrient solutions and process analysis.

Test preparation

Test storage

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

pH/Temperature

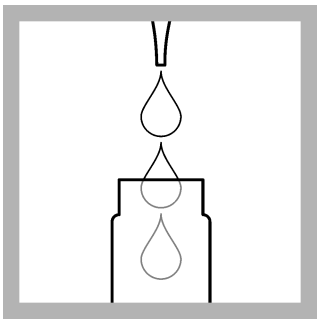
The pH of the water sample must be between pH 3–10.

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

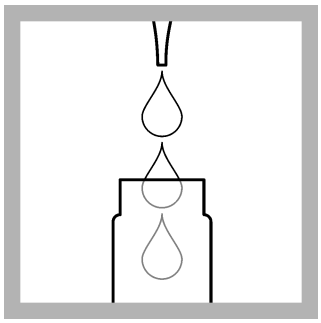
Before starting

As the intensity of a turbidity depends on many factors (temperature, time, concentration, solvents, bacterial activity, pH value) and thus can vary considerably, the accuracy of this test is about ± 5 mg/L.
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.

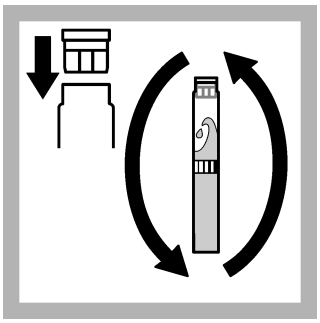
Procedure



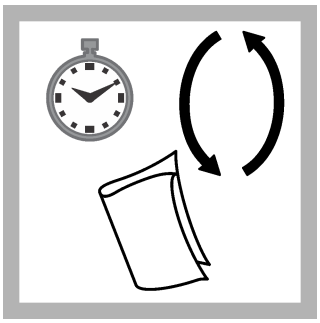
1. Carefully pipet **5.0 mL** of **solution A**.



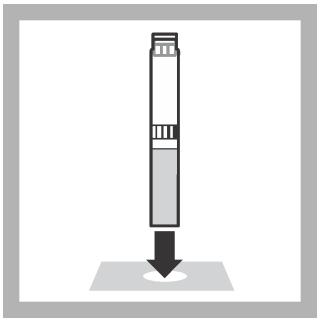
2. Carefully pipet **1.0 mL** of **sample**.



3. Close the cuvette and invert a few times.



4. After **5 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

NH_4^+, Hg^+, Cs^+ and Rb^+ also form slightly soluble precipitates with the reagents; this causes high-bias results.

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

Summary of method

Potassium ions react in alkaline solution with Kalignost to form a slightly soluble precipitate of potassium tetraphenylborate. The resulting turbidity is measured photometrically.

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