LCK425 Formaldehyde

DOC312.53.94052

Method

0.5–10.0 mg/L H_2CO **LCK425**

Scope and application: For chipboard after previous perforation (ISO 12460), fabrics, air, cosmetics, wastewater and process analysis.

Test preparation

Test storage

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

pH/Temperature

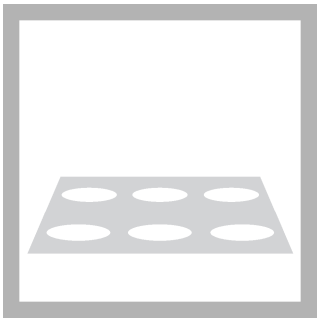
The pH of the water sample must be between pH 3–10.

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

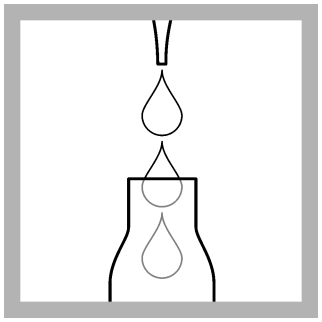
Before starting

The time in the thermostat must be strictly observed (60 °C (140 °F) for 10 minutes).
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.

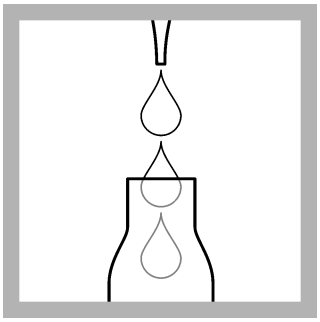
Procedure



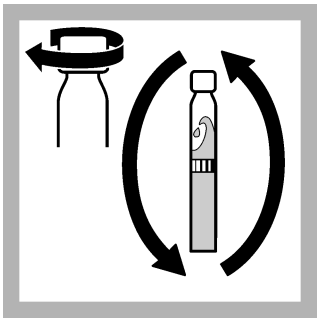
1. Preheat the thermostat to **60 °C** (140 °F).



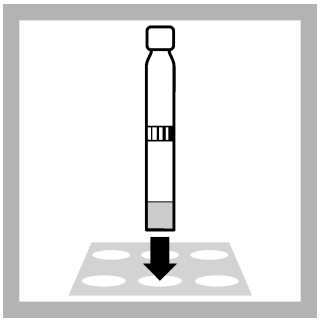
2. Carefully pipet **1.5 mL** of **sample**.



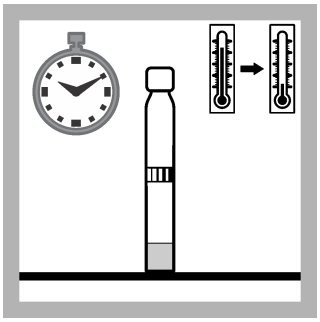
3. Carefully pipet **1.5 mL** of **solution A**.



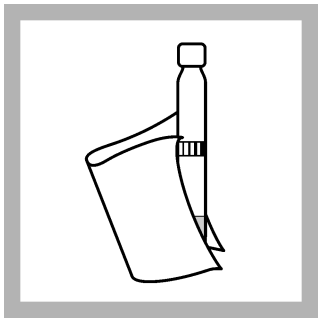
4. Close the cuvette and invert a few times.



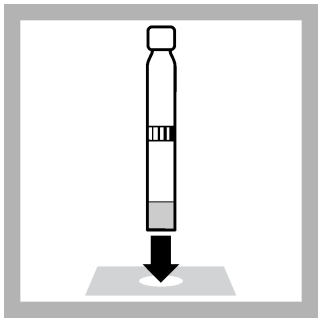
5. Heat in the thermostat at **60 °C (140 °F)** for **10 minutes**.



6. Allow to **cool** down to room temperature for **60 minutes**.



7. Thoroughly clean the outside of the cuvette and evaluate.



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

Interferences

The high selectivity of the method almost completely excludes interferences from other aldehydes. Strong oxidizing agents interfere. The measurement results must be subjected to plausibility checks (dilute and/or spike the sample).

Summary of method

Formaldehyde reacts in aqueous solution with ammonium ions and acetylacetone to give a yellow dye.

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