LCS325 Formaldehyde Trace

DOC312.53.94479

Measuring range: 0.01–1.0 mg/L Formaldehyde Trace LCS325

Scope and application: For chipboard after previous perforation (DIN 120), fabrics, air, cosmetics, waste water and process control.

Test preparation

Test storage

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

pH/Temperature

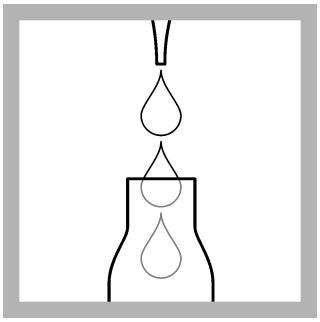
The pH of the water sample must be between pH 3–10.

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

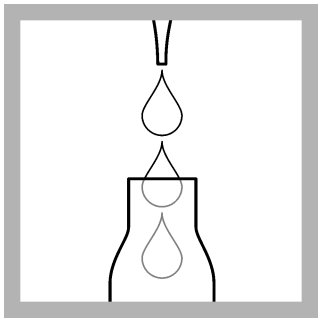
Before starting

The time in the thermostat must be strictly observed (40 °C (104 °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.

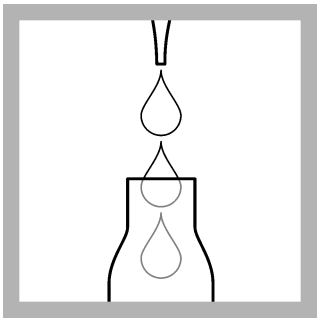
Procedure



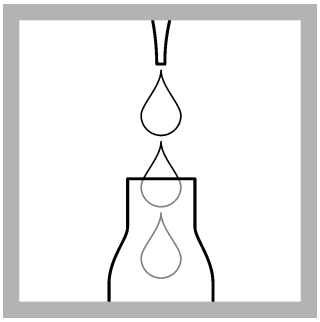
1. Sample cuvette preparation: Carefully pipet **2.0 mL** of **sample**.



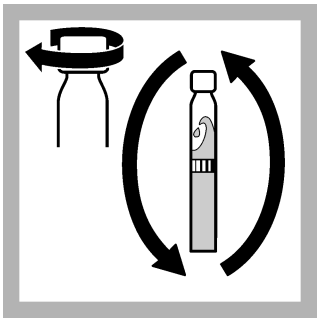
2. Carefully pipet **1.0 mL solution A** into the same cuvette.



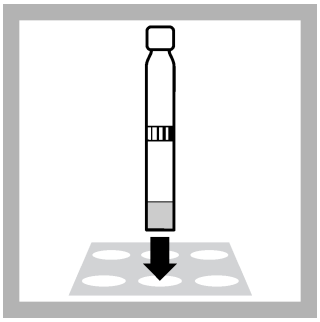
3. Blank-value cuvette preparation: Carefully pipet **2.0 mL** of **distilled water** into a **second** cuvette.



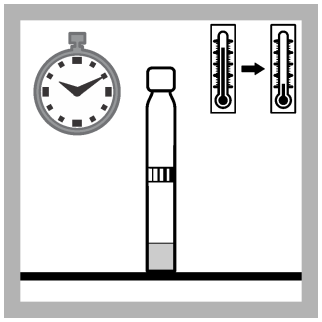
4. Carefully pipet **1.0 mL solution A** into the same cuvette.



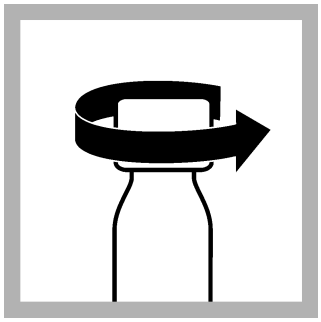
5. Close the cuvettes and invert a few times.



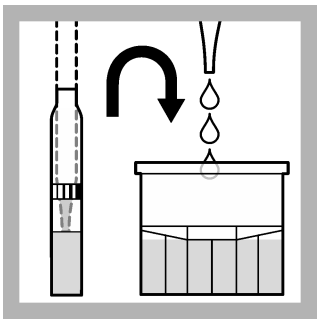
6. Heat both cuvettes in the thermostat at **40 °C (104 °F)** for **10 minutes**.



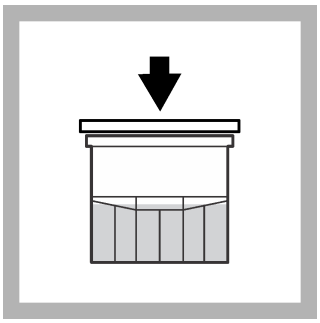
7. Allow to stand at room temperature for **60 minutes**.



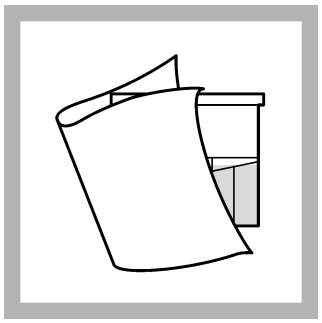
8. Open the cuvettes.



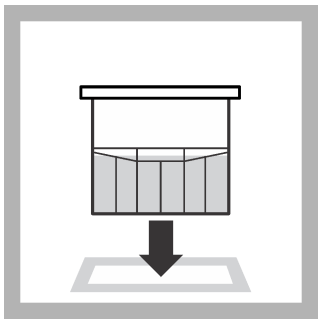
9. Transfer the contents of **each** cuvette to **50 mm semi-micro cuvettes**



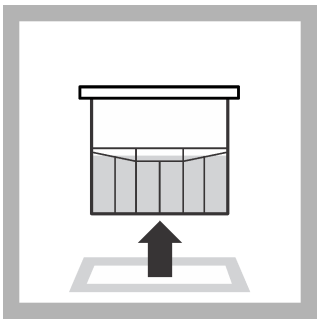
10. Close the cuvettes.



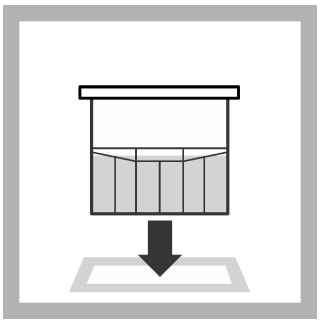
11. Thoroughly clean the outside of the cuvettes and evaluate.
Take care that there are no air bubbles!



12. Insert the **blank-value cuvette** into the cell holder. Go to **Stored Programs**. select the test, push **ZERO**.



13. Remove the blank-value cuvette.



14. Insert the **sample cuvette** into the cell holder. 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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