

0.5–10.0 mg/L O<sub>2</sub> (as permanganate index CODMn)

LCK 394

**Scope and application:** For drinking water, raw water, surface water, bath water.



## Test preparation

### Test storage

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

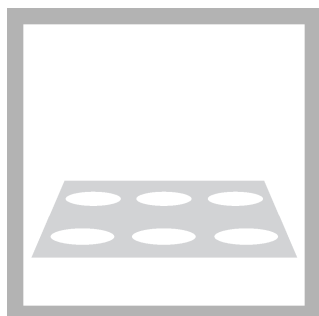
Protect against light.

### Before Starting

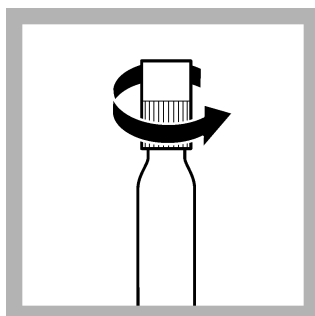
Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

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.

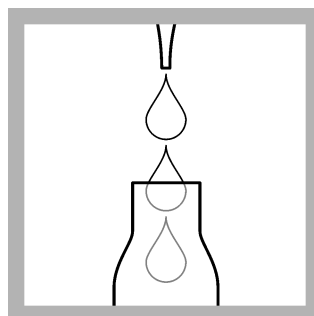
### Procedure



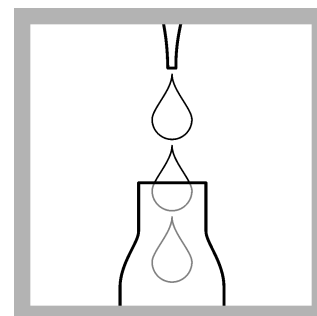
1. Preheat the thermostat to **100 °C (212 °F)**. HT 200 S: without preheating.



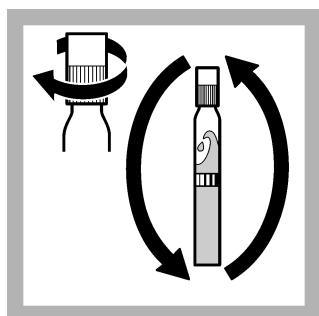
2. Unscrew the DosiCap Zip. **Do not remove the foil.**



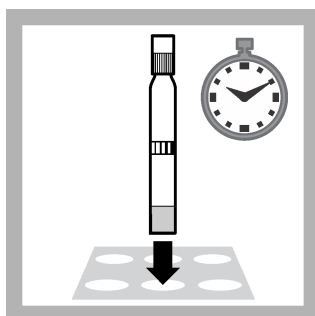
3. Carefully pipet **2.5 mL of sample**.



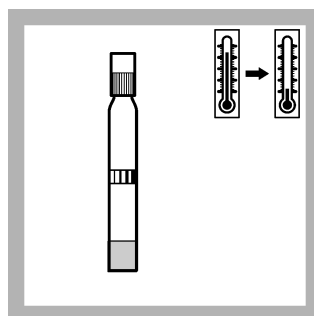
4. Carefully pipet **0.5 mL of solution A**.



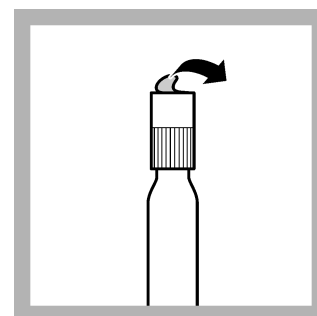
5. Close the cuvette with the DosiCap Zip, fluting below. Invert.



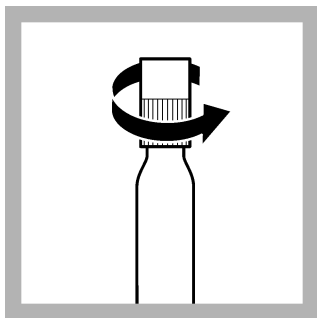
6. Heat in the thermostat. **HT 200 S: for 5 minutes at 95 °C (203 °F).**  
**Thermostat: for exactly 10 minutes at 100 °C (212 °F).**



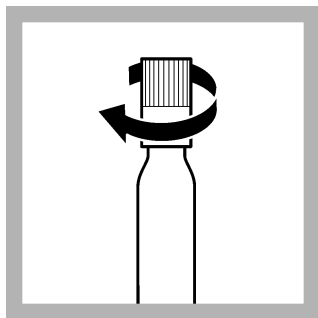
7. **Immediately** remove the hot cuvette. Cool to room temperature.



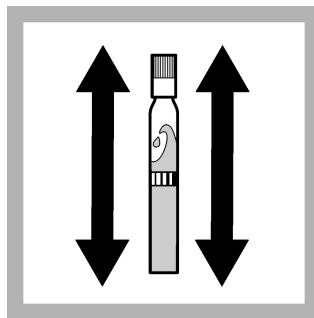
8. Carefully remove the foil from the screwed-on DosiCap Zip.



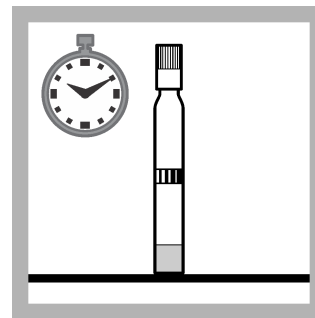
9. Unscrew the DosiCap Zip.



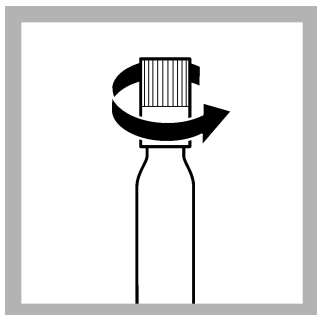
10. Close the cuvette with the DosiCap Zip, fluting at the top.



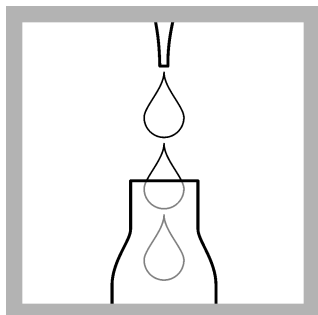
11. Shake.



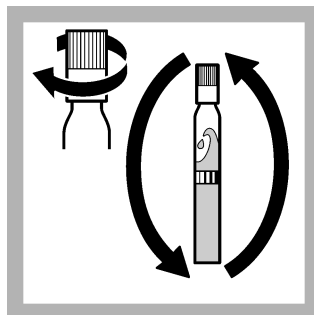
12. Let stand for at least **5 minutes**.  
Solution must be **colorless** before proceeding.



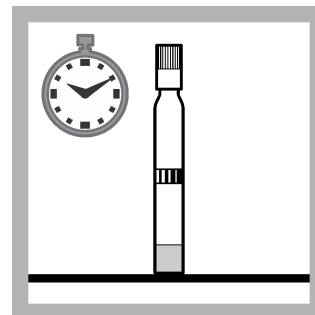
13. Unscrew the DosiCap Zip.



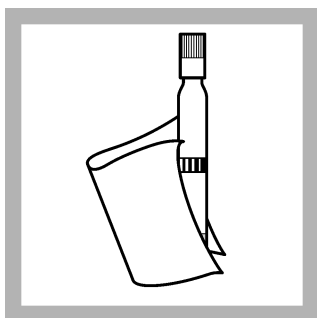
14. Carefully pipet **0.5 mL** of **solution A**.



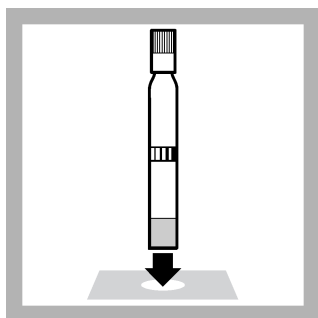
15. **Immediately** close the cuvette with the DosiCap Zip, fluting at the top.



16. Evaluate the cuvette after **exactly 1 minute**.



17. Thoroughly clean the outside of the cuvette.



18. Insert the cuvette into the cell holder.  
DR1900: select LCK/TNTplus methods.  
Select the test, push **READ**.

## Interferences

The method is applicable for samples (or diluted samples) up to a chloride content of 300 mg/L.

Reducing agents (i.e. iron-II-salts, nitrite, hydrogensulfite) interfere the method but do not usually occur in the samples to be examined.

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

## Summary of method

Oxidizable substances react with sulfuric acidic potassium permanganate solution under decoloration. The decrease of the purple color is an index for the organic load of the water sample (permanganate index according to ISO 8467).





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