LZC555 Bio Kit for BOD_5

DOC312.53.94510

LZC555

Scope and application: For municipal and industrial wastewater.

Test preparation

Test storage

Storage temperature: 4–10 °C (39–50 °F)

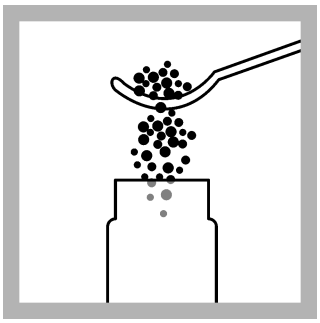
Package contents

- Reaction tubes
- Dosing spoon
- Phosphate buffer 0.01 M (pH 7.2)
- Vessel with inoculation material

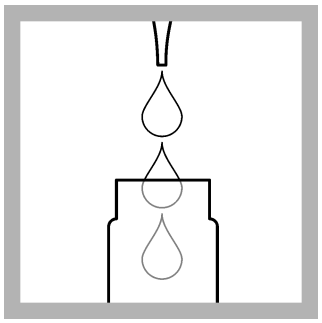
Before starting

For special attention
Prepare the dilution water always freshly. Dispose after use. Clean the vessels with lots of tap water after use.
For use of the **batch** in the **dilution water set** LZC901, refer to the **procedure** of **LZC901** (DOC312.53.94486).
For use of the **dilution water** in the **BOD_5 cuvette test** LCK555: refer to the **procedure** of **LCK555** (DOC312.53.94393).
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.

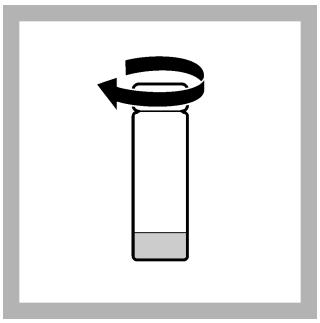
Procedure—Batch preparation



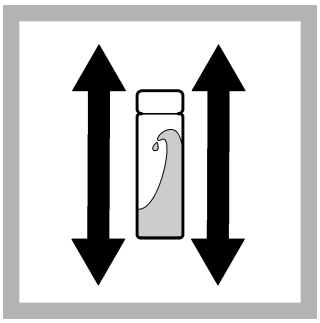
1. Add **1 level dosing spoon** (blue) of **inoculation material** to the reaction tube.



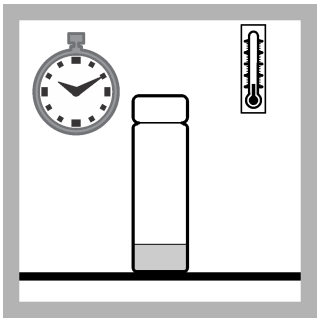
2. Add **10 mL buffer solution** to a reaction tube.



3. Close the reaction tube.



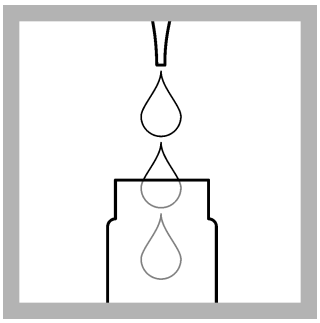
4. Shake the reaction tube **thoroughly** for **1 minute** to resuspend the microorganisms.



5. Leave the suspension to stand for **1 hour** at room temperature (**18–24 °C** / 64–75 °F).

Procedure—Use of batch in Dilution water set LZC901

Add **0.3 mL trace element solution D** to **500 mL** tap water. If the tap water is chlorinated, aerate it vigorously for **5 minutes** beforehand.



1. Add **0.5 mL** of the **inoculation solution from the supernatant dilution water** in the reaction tube. The added inoculation solution **must not contain any particles**.

If particles adhere to the outside of the pipette tip, it is advisable to wipe them off with a disposable cloth.



2. Aerate the inoculated dilution water for **1 hour**.

Summary of method

BOD_5 Inoculation Material is suitable for the rapid preparation of dilution water with appropriate microorganisms. The material is suitable for a wide spectrum of wastewater components from the municipal and industrial sector (food, paper, etc.).

Literature

Water quality - Determination of biochemical oxygen demand after n days (BOD_n)

Part 1: Dilution and inoculation method with allylthiourea acid addition (ISO 5815:1989, modified); German version EN 1899-1:1998

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