LZC955 Aqua Kit for LCK555

DOC312.53.94511

LZC955

Scope and application: Dilution water preparation

Test preparation

Test storage

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

Package contents

- 125-mL bottle
- Drop dispenser
- Transfer pipette

Items to collect

Description	Order Number
Magnetic stirrer	LYW854
Stir bars	LZV007

Before starting

Review safety information and expiration date on the package.

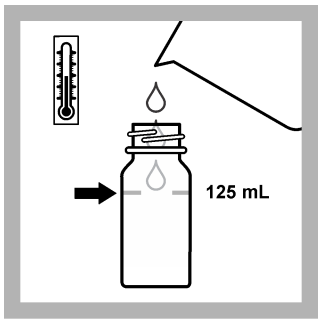
Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

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.

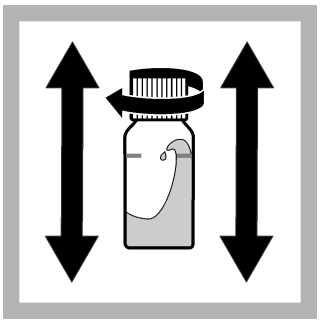
Procedure—Dilution water preparation



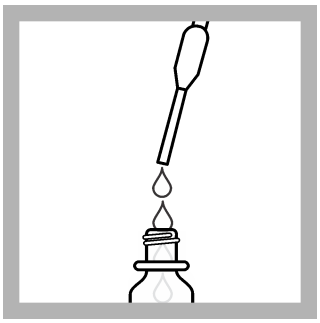
1. Open the bottle.



2. Add Chlorine-free tap water[1] at room temperature (18–22 °C) to the **125 mL-mark**.



3. Close the bottle and **shake firmly** a few times.

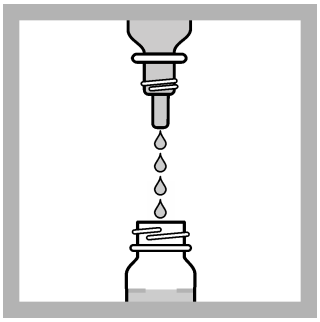


4. Use the transfer pipette to move **trace-element solution D** from LCK555 to the **drop dispenser**.

[1] Use mineral water (silent, fluoride-free) as an alternative. Degas **15 minutes** before use by shaking firmly and stirring to remove free carbonate (CO_2)



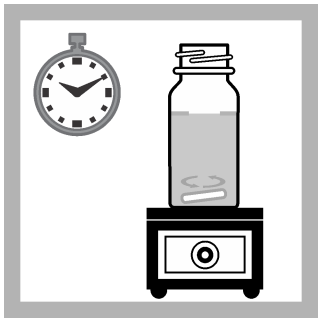
5. Open the bottle.



6. Use the **drop dispenser** to add **4 drops** of trace element solution D to the bottle.
***Note: Change** the trace-element solution D with **each** package of LCK555.*



7. Put magnetic stirring bar to the bottle.



8. Place the bottle on the magnetic stirrer.
Stir the **open** bottle for **1 hour** at **speed 2–3**.

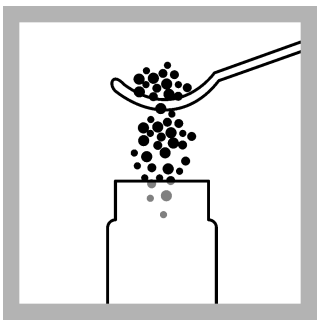
Inoculation of communal wastewater-effluent

Add inoculation amount as listed below. If necessary, use a coarse folded filter to remove turbid and suspended solids from the drain. Discard the first run of the filtrate.

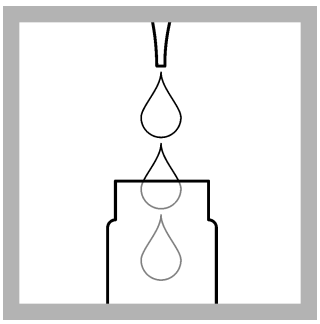
COD - content in the effluent 50 mg/L approximately: inoculate with 2.5 mL

COD - content in the effluent 25 mg/L approximately: inoculate with 5.0 mL

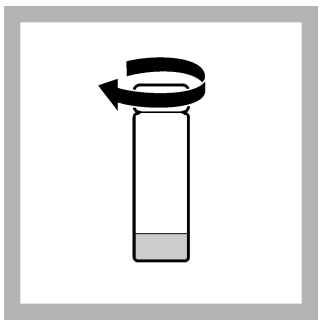
Procedure—Inoculation BioKIT LZC555



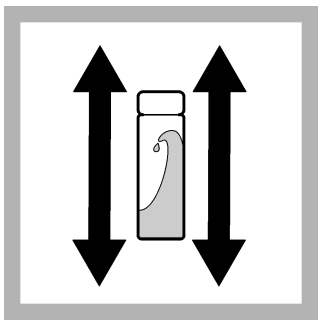
1. Add **1 level dosing spoon** (blue) of **inoculation material** to the reaction tube.



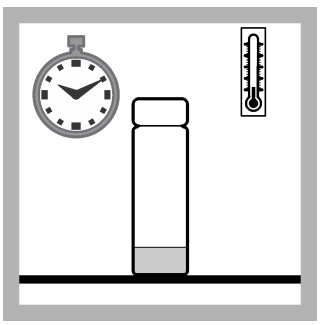
2. Add **10 mL buffer solution** to the reaction tube.



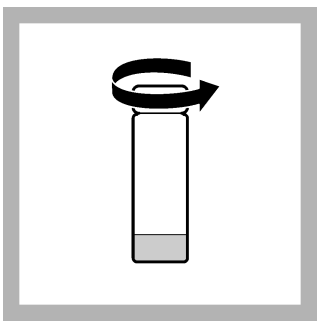
3. Close the reaction tube.



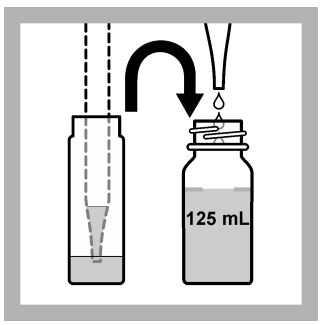
4. Shake the reaction tube **thoroughly** for **1 minute** to resuspend the microorganisms.



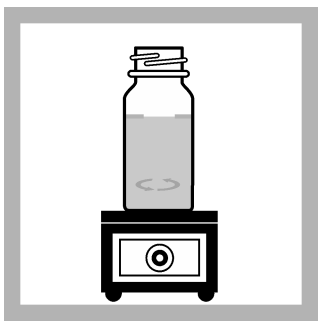
5. Let stand for **1 hour** at room temperature (18–22 °C).



6. Open the reaction tube.



7. Add **0.2 mL inoculation solution *free of any particles*** to 125 mL of dilution water.



8. Stir the mixture briefly before use.

HACH LANGE GMBH
Willstätterstraße 11
D-40549 Düsseldorf
Tel. +49 (0) 2 11 52 88-0
Fax +49 (0) 2 11 52 88-143
info-de@hach.com
www.hach.com

© Hach Company, 2021. All rights reserved.

02/2021, Edition 1