LCA 555 addista

DOC312.53.94084

BOD_5 Glucose-glutamic acid standard — LCA 555 addista

Scope and application: For Quality Assurance.

Test preparation

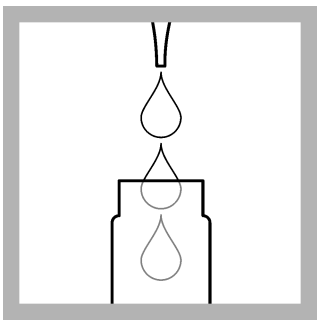
Test storage

Storage temperature: 2–8 °C (35–46 °F)

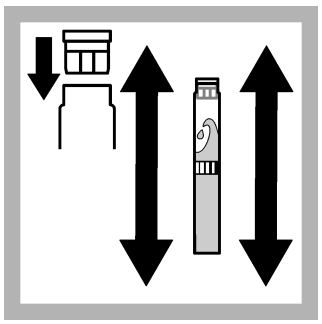
Before starting

Special note Always prepare fresh standard and discard after use. Carry out the analysis in duplicate if possible.
Characteristic Data Recovery rate for optimal inoculation: 205 +/- 45 mg/L BOD_5 The theoretical value of 205 +/- 45 mg/L corresponds to the generally accepted scatter of the biological measuring procedure for BOD_5.
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



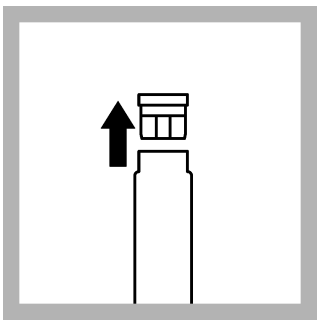
1. Carefully pipet to a cuvette containing freeze-dried contents: **5.0 mL** distilled water



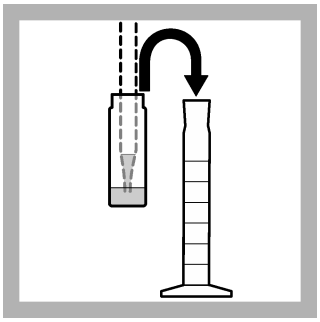
2. Close the cuvette and shake vigorously.



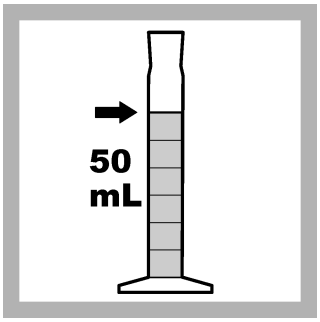
3. Start the reaction timer for **3 minutes**.



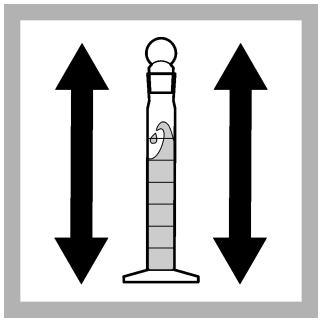
4. Open the cuvette.



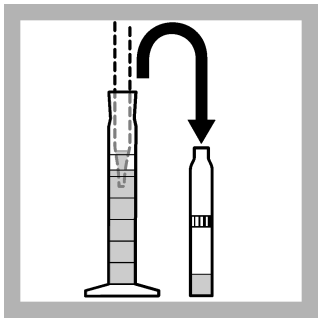
5. Pipet **2.2 mL** of the solution into a 50 mL graduated cylinder,



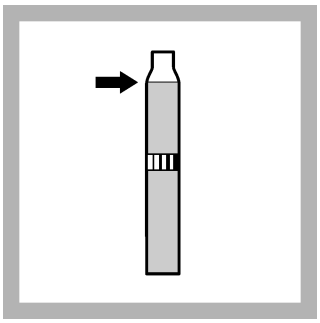
6. Top up with distilled water.



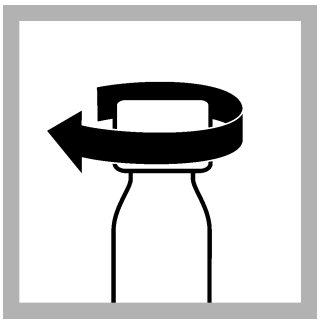
7. Close the cylinder and shake vigorously.



8. Open the cylinder. Pipet **0.5 mL** standard solution (50 mL graduated cylinder) **directly** into sample cuvette.



9. Top up the sample cuvette with dilution water.



10. Close the cuvette



11. After **5 days**, evaluate in **measuring range B2 (50–275 mg/L)** against the dilution water cuvette that was prepared in parallel.

Summary of method

LCA 555 addista is a control standard system for cuvette test LCK 555 BOD_5. The standard contains glucose and L-glutamic acid.

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