



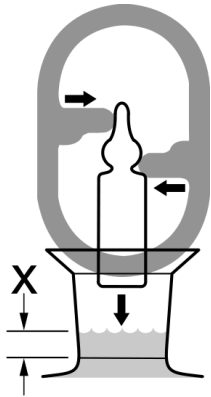
Instruction Sheet

ezGGA Solution

DOC272.53.90017

Use the following instructions to add the BOD Standard Solution.

DO measurement with the LBOD probe



1. Add the necessary seed to a 300-mL BOD bottle.
2. Fill the BOD bottle with dilution water until the water level is approximately $\frac{1}{4}$ inch up the ground glass portion of the neck. (See dimension "x" in illustration).
3. Put the 2-mL BOD standard ampule into the ampule breaker and rinse the assembly with deionized water.
4. Hold the ampule and breaker over the rim of the BOD bottle.
5. Use the ampule breaker to open the ampule and allow it to fall into the BOD bottle. Leave ampule in the BOD bottle during incubation period.
6. Follow the general procedure for the BOD test.
7. Calculate the BOD concentration of the standard solution. The 2 mL in the vial is equivalent to 6 mL as prepared by Standard Methods. The concentration of the ezGGA solution (450 mg/L of GGA) is three times larger than the SM procedure (150 mg/L of GGA). Calculate the BOD concentration as though there were 6 mL of 150 mg/L GGA added to the bottle instead of 2 mL. The dilution factor for this standard is 50x. The concentration after dilution is 3 mg/L glucose and 3 mg/L glutamic acid.

DO measurement with the Clark Cell electrode



1. Add the necessary seed to a 300-mL BOD bottle.
2. Use the ampule breaker to open the ampule.
3. Pour the contents of the ampule into the BOD bottle. Tap the ampule on the rim of the bottle to dislodge the contents. Do not drop ampule into the bottle when using a Clark Cell.
4. Fill the ampule with buffered dilution water and add the water to the BOD bottle.
5. Repeat step 4.
6. Fill the BOD bottle with dilution water until the water level is approximately $\frac{1}{2}$ inch up the ground glass portion of the neck.
7. Follow the general procedure for the BOD test.
8. Calculate the BOD concentration of the standard solution. The 2 mL in the vial is equivalent to 6 mL as prepared by Standard Methods. The concentration of the ezGGA solution (450 mg/L of GGA) is three times larger than the SM procedure (150 mg/L of GGA). Calculate the BOD concentration as though there were 6 mL of 150 mg/L GGA added to the bottle instead of 2 mL. The dilution factor for this standard is 50x. The concentration after dilution is 3 mg/L glucose and 3 mg/L glutamic acid.



FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:

In the U.S.A. – Call toll-free 800-227-4224

Outside the U.S.A. – Contact the HACH office or distributor serving you.

On the Worldwide Web – www.hach.com; E-mail – techhelp@hach.com

HACH COMPANY
WORLD HEADQUARTERS
Telephone: (970) 669-3050
FAX: (970) 669-2932