

EZ BOD Seed Directions for Use

STEP 1:

Open one EZ BOD Seed capsule and add contents to 500ml dilution water prepared in accordance with Standard Methods. Be careful to avoid the loss of material. The capsule should be discarded. Not all components of the product will dissolve. This seed solution should be prepared fresh prior to use.

STEP 2:

Allow to rehydrate for one hour, supply with continuous aeration. Maintain the fresh seed solution at 20 degrees C. After rehydration, stop aeration and allow solution to settle for 15 minutes. For best results, draw an aliquot one or two inches below surface. Be careful not to draw from the bottom, as the presence of undissolved material may lead to irregular results.

STEP 3:

Seed controls: To determine optimum value of seed solution to use, set up seed controls of 5 ml, 10 ml, and 15 ml.

Parameters such as method and duration of aeration, settling time, dilution water quality, and draw-off method will affect both the values obtained and uniformity of results. Keeping the parameters as constant as possible will increase uniformity of results from day to day.

After you have determined the optimum volume of seed solution for your seed controls, you may choose to refine your range of sample sizes for seed control. Many technicians have decided on volumes of 3 ml, 5 ml, and 7 ml for seed controls.

$$\text{Seed correction factor} = \frac{V_1(DO_1 - DO_2)}{V_2}$$

Where DO₁ = Dissolved Oxygen of seed control before incubation (mg/L or PPM).

DO₂ = Dissolved Oxygen of seed control after incubation (mg/L or PPM).

V₁ = Volume of seed in BOD sample (mL).

V₂ = Volume of seed in seed control (mL).

STEP 4:

Seeding of samples and standards:

The EZ BOD Seed solution can be drawn off and used at a rate of 2.0 ml per 300 ml of test solution.

DISCLAIMER

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