

# Disposable BOD Bottles

## Why choose disposable BOD bottles?

1. Eliminate broken bottles
2. No more washing
3. Easy identification of samples
4. No recleaning—use out of the box
5. Lightweight for easier carrying



## Get more accurate results with each analysis

- Use bottles right out of the box—packaging eliminates dust or residue for better results
- EPA-approved for use in BOD methods
- No more broken bottles
- Easily identify samples with individually numbered bottles
- Conserve water and eliminate the use of soaps and detergents
- Reduce fatigue—bottles weigh 85% less than standard glass BOD bottles

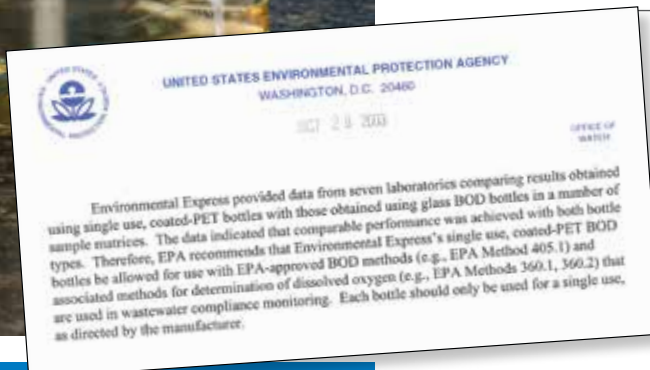


These PET bottles offer a specially formulated carbon coating that prevents oxygen from diffusing into or out of your sample, unlike ordinary plastic bottles. The unique amorphous carbon inner wall is just 1000 angstroms thick, but it provides a superior barrier resulting in uniform blanks, precise standard recoveries, and quality test data.

Bottles hold 300 mL of sample and use glass or acrylic stoppers (order separately). Due to their composition, bottles take up less space in your incubator. PET material is fully recyclable—simply discard sample and recycle bottle when your testing is complete.

Capacity	Stopper type	Number sequence	Catalog number	Qty/cs
300 mL	Order separately	Individually numbered	<b>D1001</b>	100

Note: Quantity discounts are available.



“EPA recommends that Environmental Express’s single use, coated PET BOD bottles be allowed for use with EPA-approved BOD methods (e.g., EPA Method 405.1) and associated methods for determination of dissolved oxygen (e.g., EPA Methods 360.1, 360.2) that are used in wastewater compliance monitoring...”

United States  
Environmental Protection Agency  
October 28, 2003

## Wheaton® 60-mL Glass BOD Bottle with Stopper

### Easily keep track of samples with opaque writing patch

- Reduced sample volume is ideal for a variety of applications
- Unique shoulder radius sweeps all air from the bottle during filling
- Flared mouth forms a water seal around the stopper, preventing air from being drawn into the bottle during incubation
- Manufactured from USP Type I borosilicate glass
- Unnumbered; with glass pennyhead stopper



Capacity	Stopper type	Catalog number	Qty/cs
60 mL	Pennyhead	<b>D1006</b>	36

## Acrylic Bottle Stopper

### Save money compared to glass

- Robotic style head
- Fits standard 60- and 300-mL glass BOD bottles (at left)
- Also fits our disposable BOD bottles



Description	Catalog number	Qty/cs
Acrylic bottle stopper, robotic style	<b>D1025</b>	25

## Environmental Express® 300-mL Glass BOD Bottle with Stopper

### Improved shoulder design removes entrapped air

- Flared mouth design prevents air from entering sample during incubation
- Displace excess sample with conical extension on stopper
- Conforms to ASTM E438, Type I, Class B, borosilicate glass
- Unnumbered; with glass pennyhead stopper

These bottles are designed for sampling and for incubation of aqueous samples for biochemical oxygen demand (BOD) analysis for reference Method 5210-B: 5-Day BOD Test (Standard Methods for Examination of Water and Wastewater).



Capacity	Stopper type	Catalog number	Qty/cs
300 mL	Pennyhead	<b>D1003</b>	24

## BOD Overcap

### Prevent evaporation of your sample

- Required by Standard Methods to prevent evaporation
- Polyethylene (PE) overcap fit snugly against the rim and shoulder of the bottle
- Designed exclusively for our disposable BOD bottles



Description	Catalog number	Qty/cs
BOD overcap	<b>D1050</b>	50

## BOD Bottle Carrier

### Organize bottles with ease

- Accommodates eight standard and disposable 300-mL BOD bottles
- Chemical-resistant polypropylene (PP)
- Autoclavable at 121°C (250°F)



Description	Capacity	Dimensions (W x H x D)	Catalog	Qty/pk
BOD bottle carrier	8 x 300-mL bottles	13" x 6¼" x 6¾"	<b>D1054</b>	2

## BOD Bottle Transfer and Storage Racks

### Won't corrode

- Plastic coated for added durability
- Safely transport bottles with ease
- Save space by stacking racks



Description	Capacity	Dimensions (W x H x D)	Catalog number
BOD bottle transfer racks	20 x 60-mL bottles	13" x 6" x 10"	<b>D1051</b>
	12 x 300-mL bottles	13" x 8" x 10"	<b>D1052</b>
BOD bottle storage rack, autoclavable	12 x 300-mL bottles	12½" x 7¼" x 9¼"	<b>D1053</b>

## Environmental Express® BOD Dilution Water Solutions

### Easily make BOD dilution water

- Simple to use—just add 1 mL of each solution to 1 L of water
- Manufactured according to Standard Methods 5210B for 5-day BOD testing
- Be in conformance—solutions conform to regulations requiring fresh solutions
- Set contains one bottle of each:
  - Calcium chloride solution, 2.75%
  - Ferric chloride solution, 0.025%
  - Magnesium sulfate solution, 2.25%
  - Phosphate buffer solution, pH 7.2



Description	Catalog number
4-Bottle BOD dilution set, 100-mL bottles	<b>D1500-100</b>
4-Bottle BOD dilution set, 500-mL bottles	<b>D1500-500</b>
4-Bottle BOD dilution set, 1-L bottles	<b>D1500-1L</b>

## Environmental Express® SimpleWater™ BOD Nutrient Buffer Solutions

### No mess and no measuring

- Available in five standard concentrations
- Borosilicate glass vials with leakproof screw caps

BOD dilution water is composed of a variety of nutrients that provide optimal growth media for bacteria in BOD tests. SimpleWater nutrient buffer solutions are concentrates of the four nutrient solutions conveniently combined in one vial. Simply dilute contents of vial to volume and make your BOD dilution water.



Description	Catalog number	Qty/pk
SimpleWater BOD solution, 300-mL dilution	<b>D4300ML</b>	36
SimpleWater BOD solution, 3-L dilution	<b>D4003L</b>	36
SimpleWater BOD solution, 4-L dilution	<b>D4004L</b>	36
SimpleWater BOD solution, 6-L dilution	<b>D4006L</b>	36
SimpleWater BOD solution, 19-L dilution	<b>D4019L</b>	36

## Rack Inserts for Automated BOD Systems

### Keep our disposable BOD bottles in place

- Designed specifically to hold Environmental Express® disposable BOD bottles (D1001)
- Available for Thermo Scientific™ Orion™ and Skalar® automated BOD analyzers

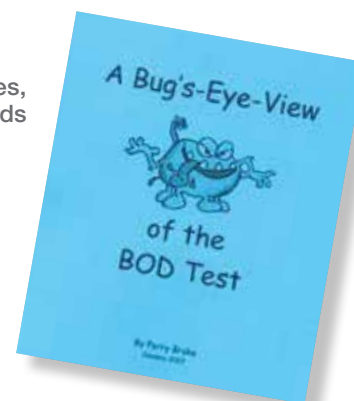


Description	Material of construction	Number of bottles held	Dimensions (W x H x D)	Catalog number
Rack insert for Thermo Scientific™ Orion™ BOD analyzer; slips directly into standard Thermo Scientific Orion trays	½"-thick high-density polyethylene (HDPE)	12	10" x 2" x 8"	<b>D1055</b>
Rack inserts for Skalar® BOD analyzers	Low-weight, closed-cell PVC	16	12" x 2¼" x 12½"	<b>D1058</b>
		18	18" x 2¼" x 9"	<b>D1059</b>

## A Bug's-Eye-View of the BOD Test

### Remove the mystery from BOD testing

- Get a better understanding of Standard Methods 5210B
- Troubleshooting guide focuses on common problems, suggests causes, and recommends potential corrective actions
- Includes a supplementary compact disk



Description	Catalog number
<i>A Bug's-Eye-View of the BOD Test</i> by Perry Blake, 54 pp	<b>D1020</b>

## Environmental Express® Single-Use Glucose-Glutamic Acid Ampules

### Eliminate potential GGA degradation

- No more dilution errors—stable, certified ampules are easy to use
- Made specifically for 60-mL BOD bottles to achieve 198 mg/L

No need to pipette—simply pour out contents of ampule and rinse to quantitatively transfer any remaining residue.



Description	Catalog number	Qty/bx
BOD - GGA standard, 1.2-mL ampules	<b>D1243C</b>	24

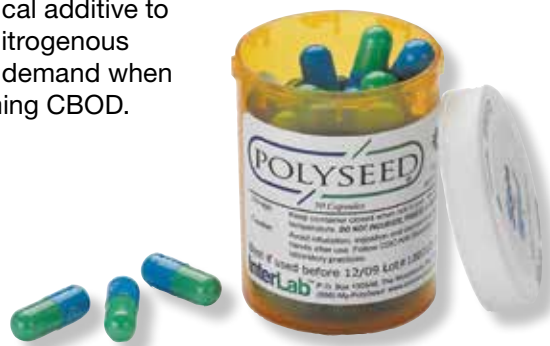
## Polyseed® Capsules for BOD and CBOD

### Get fresh, consistent seed each time

- One easy-to-use capsule performs approximately 100 tests

**Polyseed Capsules** contain a special blend of microbial cultures that provide a uniform standard for BOD analysis.

**Polyseed NX Capsules** contain a chemical additive to inhibit nitrogenous oxygen demand when performing CBOD.



Description	Catalog number	Qty/pk
Polyseed capsules for BOD	<b>D1250</b>	50
Polyseed NX capsules for CBOD	<b>D1255</b>	50

## YSI® 5000-Series Dissolved Oxygen, BOD, and Oxygen Uptake Benchtop Meters

### Meet US EPA approved methods

- Model 5100 calculates oxygen uptake and specific oxygen uptake rates (OUR/SOUR) via built-in software
- Menu-driven operation makes setup simple
- Auto-calibration with corrections for temperature, pressure, and salinity
- Store up to 100 data sets with GLP time stamp and download via RS-232 port



Model	YSI model 5000		YSI model 5100	
	EE0551020	EE0551025	EE0551022	EE0551027
Parameters	DO/BOD		DO/BOD/OUR/SOUR	
Range	Dissolved oxygen, mg/L (ppm)	0.0 to 60.0	0.0 to 60.0	
	Dissolved oxygen (% saturation)	0 to 600.0%	0 to 600.0%	
	Barometric pressure	0 to 1500 mbar	0 to 1500 mbar	
	Temperature	-5 to 50°C	-5 to 50°C	
Accuracy	Dissolved oxygen, mg/L (ppm)	±0.1% of reading	±0.1% of reading	
	Dissolved oxygen (% saturation)	±0.1% of reading	±0.1% of reading	
	Barometric pressure	±0.1% of reading	±0.1% of reading	
	Temperature	±0.10°C	±0.10°C	
Power (included)	115 VAC or four C batteries	230 VAC or four C batteries	115 VAC or four C batteries	230 VAC or four C batteries

### Accessories

**EE0551060 YSI 5010 self-stirring BOD bottle probe.**  
Includes membrane cap kit 05519-61

**EE0551961 Membrane cap kit.**  
Includes six membranes, sanding disc, and KCl crystals

**EE1710604 NIST-traceable calibration** with data for DO meters