



Bioscience, Inc.

Environmental Products and Services

ISO 9001:2008 Certified

Accu-TEST™ Micro-COD System

The EPA accepted accu-TEST Micro-COD System offers fast, low-cost determination of chemical oxygen demand (COD).

Description

The micro-COD test determines the quantity of oxygen required to oxidize reduced compounds, including organic matter, in a water sample. This test requires a specific oxidizing agent and a catalyst, which are included in the accu-TEST reagents. The reagents and samples are processed for 2 hours at a temperature of 150°C. The 2-hour time period is mandatory for EPA approved methods, but COD readings for non-reporting purposes may be obtained in as little as 15 minutes for readily oxidized wastes.



Step #1: Twist off the cap. Add sample. Replace the cap.

Step #2: Digest the sample and reagents at 150°C for two hours in the accu-TEST COD Reactor.

Step #3: Read results on a calibrated spectrophotometer.

That's all there is to it. If you wish to reopen the vial for titration of the digested material, simply unscrew the cap and remove the sample. We provide special instructions for pre-treatment of high chloride (in excess of 2,000 mg/l) samples that permit analysis using the above method. For samples with low chloride and ammonia levels, we offer mercury-free reagents, which can be used for non-reporting purposes.

accu-TEST Product Line

The accu-TEST System can offer your laboratory:

- Up to 75% cost savings over the standard method
- Full compatibility with EPA 410.4 and Standard Methods 5220.
- Mercury-Free Reagents
- Much lower waste disposal costs
- Full compatibility with other systems

accu-TEST Advantage

The accu-TEST micro-COD systems provides:

- Superior optical quality glassware for more consistent results
- Cost effectiveness through reduced test time and waste disposal costs
- Experienced and responsible technical support by an expert
- Guaranteed satisfaction

accu-TEST COD Reagents

accu-TEST COD vials are field-proven, EPA accepted (with mercury) test kits used around the world for fast, easy COD testing. They are available in 5 formulations, including mercury-free.



PCN#	Product	Range
174 326	High Range COD Reagents	100-4,500 mg COD/L
174 318	Standard Range COD Reagents	20-900 mg COD/L
174 334	Low Range COD Reagents	5-150 mg COD/L
185 252	Mercury-free Standard COD Reagents	20-900 mg COD/L
185 240	Mercury-free Low Range COD Reagents	5-150 mg COD/L

Accu-TEST COD reagents come in quantities of 50 per box. Discounted rates are applied to orders of 3 or more boxes (excluding 185 240 Mercury-free Low Range COD Reagents).

accu-TEST COD Heater Blocks and Accessories



accu-TEST COD heater blocks are available for simultaneous digestion of up to 15 or 30 reagent vials (16 mm diameter). They have unequalled accuracy and precision, and maintain temperature of 150°C within +/-2°C. The operational temperature range of the accu-TEST COD heater block is Amb. +5°C to 150°C.

PCN#	Product
163 495	Digital COD Reactor, 15-Tube Capacity, (110V)
163 497	Digital COD Reactor, 15-Tube Capacity, (220V)
163 466	COD Reactor, 30-Tube Capacity, Thermometer (110V)
163 666	COD Reactor, 30-Tube Capacity, Thermometer (220V)
163 496	Digital COD Reactor, 30-Tube Capacity (110V)
163 498	Digital COD Reactor, 30-Tube Capacity (220V)
163 802	Digital Thermometer/Timer for Reactors
110 700	Tube Rack, 80 Tube Capacity
163 900	Safety Shield
118 539	5ml Automatic Pipet
118 547	Disposable Pipet Tips, 0.078" I.D., 250/pkg

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MC-500 Multi-Parameter Colorimeter

The MC-500 Multi-Parameter Colorimeter from Orbeco-Hellige is a versatile instrument which tests for a wide range of water quality parameters from Alkalinity to Zink. The 6 LED photodetector array allows the instrument to conduct over 70 pre-programmed test methods and 20 user defined methods. Up to 1,000 data sets can be stored in the instruments internal memory and transferred to a computer using an infrared dataport.

MC-500 colorimeter features include:

- Wavelengths: 430, 530, 560, 580, 610 and 660 nm
- Optics: Light-emitting diodes and photosensor-intensifier featuring automatic wave length selection
- User-favorites menu (select the tests you often use)
- Acid and solvent resistant, touch-sensitive keypad with audible feedback
- 1,000 data set storage
- Customizable with user defined methods (10 with calibration point input and 10 with polynomial input)
- Optional infrared data transfer system to download data to a computer
- New method downloads via internet
- User interface in English, Spanish, French, German and Italian
- Compact and lightweight for laboratory, plant, and field use

The MC-500 colorimeter comes with:

- 3x24 mm sample cells
- 3x16 mm sample cells
- 16 mm tube adapter
- 13 mm tube adapter
- Carrying case
- Batteries
- Operators manual



DISCLAIMER

The information contained in this data sheet is a guide to the use of Bioscience products and is based on test and information believed to be reliable. Product content and specifications are subject to change without notice. All information is given to and accepted by user at user's risk and confirmation of its validity and suitability to particular cases should be obtained independently. Bioscience, Inc. makes no guarantee of results and assumes no obligation or liability in connection with the information contained herein. Bioscience, Inc. does not warrant against infringement of, and this data sheet is not to be construed as a license to operate under, any patents.

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