

RAPID COD TEST USES COLORIMETRY

BETHLEHEM, Pa. (2007) — A rapid COD test that employs a colorimeter rather than a more expensive spectrophotometer has been introduced by Bioscience, Inc. The test method is intended for rapid evaluation of wastewater or influent streams when EPA reporting is not required. It is especially valuable to determine the onset of possible wastewater treatment plant upsets.

The micro-COD test identifies wastewater problems in two hours with a mercury-free reagent system that reduces waste disposal costs. The user twists off the tube cap and adds 2.5 mg of sample, heats the tube for two hours at 150 degrees C, and reads COD results directly from a “smart” colorimeter.

The colorimeter contains a microprocessor that selects for low or standard COD ranges, provides a menu for the test sequence and displays results directly in ppm. It selects and positions one of six built-in light filters when the analyst chooses one of 40 pre-programmed test parameters. It also displays percent transmittance and absorbance. Users can develop their own calibration curves for proprietary analyses and store them in memory along with a sequenced routine for that test.

The unit comes with an RS-232 interface for transferring data to a computer.

The new test system utilizes the same reagent-containing Twist-Tubes employed in Bioscience’s EPA-approved accu-TEST COD method, which requires a spectrophotometer to conform to EPA Method 410.4. It can also be used with a wide variety of other pre-packaged reagents for rapid measurements of toxic or inhibitory compounds in waste streams.

For a complete description of “Smart” colorimetry, call Bioscience, Inc., at 484-245-5232, e-mail bioscience@bioscienceinc.com, or visit the Web site at www.bioscienceinc.com.