

NEW, RAPID TOXICITY TEST  
DEVELOPED BY BIOSCIENCE, INC.

BETHLEHEM, PA (November 30, 2004) -- Wastewater treatment plant operators are familiar with the sensitivity of nitrifying (ammonia-removing) microorganisms, which are the first to die off in cold weather or under the stress of toxic or inhibitory influents. Now Bioscience, Inc., has developed a test method using this characteristic to determine the toxicity of an incoming waste stream in from 15 to 30 minutes.

The test uses the company's proprietary strains of nitrifying bacteria, known as MICROCAT®-XNC and its **portable EZ-BOD® Meter** to measure the specific oxygen uptake rate (SOUR) in a reactor vessel containing a water solution of bacteria and nutrients.

The test first establishes the oxygen uptake of the bacterial solution under ideal growing conditions. The sample to be tested is then added to the reactor. If the sample is toxic or inhibitory, the SOUR will decline in 15 to 30 minutes, even if the toxicity is not immediately acting. If the material is not toxic to highly sensitive nitrifying bacteria, the chance of it being toxic to other organisms in the biomass is small.

**The computerized EZ-BOD Meter is widely used in wastewater treatment plants for rapid determination of projected five-day BOD. It can also be used for a variety of other tests, including SOUR.**

Full details of the new procedure are available from Bioscience, Inc., 1550 Valley Center Parkway, Suite 140, Bethlehem, PA 18017, call 1-800-627-3069, fax 610-691-2170, e-mail [bioscience@bioscienceinc.com](mailto:bioscience@bioscienceinc.com) or visit the company's web site at [www.bioscienceinc.com](http://www.bioscienceinc.com).