

**DeltaTox® II**

Essential Water Quality Fit for Use Analysis

SDIX offers you a complete portable solution for rapid emergency response characterization of potentially contaminated drinking water. Using the DeltaTox instrument, you can rapidly assess water samples for chemical contamination and screen for microbial contamination in response to drinking water emergencies.



CHEMICAL CONTAMINATION

The **DeltaTox® II Analyzer** is a simple and portable test system for acute toxicity that is ideal for screening for chemical contamination. DeltaTox® technology is based on the widely-used and well-documented Microtox® Test System and uses the same specialized strain of luminescent bacteria to provide a direct measurement of the toxicity of a sample and simultaneously detect thousands of potential contaminants. The DeltaTox® II Analyzer is portable and is easily used at remote locations, such as reservoirs, storage tanks, or at locations throughout your distribution system.

MICROBIAL CONTAMINATION

The DeltaTox® II instrument can also be used for rapid quantification of total viable biomass using ATP analysis. The DeltaTox® ATP assay uses the principle of bioluminescence to determine accurately the total biomass present in water or wastewater samples. All organisms contain ATP (Adenosine triphosphate) as their main energy source. The amount of ATP in a sample is directly proportional to the biomass of the sample. ATP reacts with luciferin / luciferase – the enzyme system present in firefly tails to produce light. In the reaction, each molecule of ATP produces one photon of light. The light output of this reaction can be accurately measured using the very sensitive DeltaTox® II instrument.

- Results available in minutes, no filtration or incubation steps
- Broad range of toxins detected - >2,800 compounds
- Microbial detection level in drinking water – 100 cfu/mL
- Excellent correlation with HPC methods
- Cost effective and Portable

Partial list of toxic compounds of concern detected by DeltaTox® II:

Phenol	PR-Toxin	Benzoyl Cyanide	Trinitrotoluene (TNT)
Lead	Copper	Lindane	Parathion
Arsenic	Aflatoxin	DDT	4-phenyl Toluene
Mercury	Ochratoxin	Cresol	Carbofuran
Sodium Cyanide	Rubratoxin	Formaldehyde	Pentachlorophenol
Selenium	Chloroform	Malathion	Patulin
Potassium Cyanide	Ammonia	Carbaryl	Paraquat
Chromium	Sodium Lauryl Sulfate	Flouroacetate	Diazinon

Drinking Water – safe from the source to the tap!



111 Pencader Drive
Newark, DE 19702 USA

T: 800.544.8881
F: 302.xxx.xxxx

www.sdix.com