

Martin International

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CBMS

The Chemical Biological Mass Spectrometer

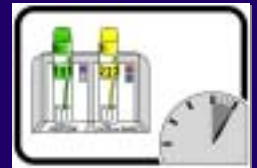


The CBMS Block I is a military rugged mobile Ion-Trap Mass Spectrometer for the classification of Biological Warfare Agents (BWAs). Equipped with Virtual Injector and Pyrolyzer, the CBMS is capable of detecting and classifying BWAs within 3 minutes.



BioCheck™ Powder Screening Test Kit

- Indicates the presence or absence of protein in suspicious powders through a simple color change.
- All pathogens and toxins contain protein therefore a positive result indicates the possible presence of a bioterror agent
- pH test provides additional information (biological materials are more likely to be of physiological (neutral) pH).



RAPID

Stand-off detector for atmospheric pollutants



Compact mobile infrared detector for real-time remote sensing of chemical agent clouds. All known Chemical Warfare Agents (CWAs) and important Toxic Industrial Chemicals (TICs) can be automatically monitored up to a distance of five kilometres - either stationary or on the move.

MM 2

Mobile Mass Spectrometer - The new Generation



The MM2 represents a new generation of quadrupole mass spectrometers with a membrane inlet. Equipped with flexible accessories such as the surface probe and the gas chromatograph with thermo desorption all tasks for chemical detection can be easily fulfilled. Introducing a novel vacuum system reflects the trend to high-performance but lightweight detection equipment and the application of current micro-controller based technologies for instrument control. With a volume of 43 litres and a weight of 37 kg a milestone in GC/MS technology has been achieved.

RAID series

Rapid Alarm and Identification Devices for CWAs



The RAID family of detectors for Chemical Warfare Agents (CWAs) and Toxic Industrial Chemicals (TICs) is well known in the world of NBC Detection. A variety of applications is covered by our hand-held, portable and stationary detectors. Based on the detection principle of Ion Mobility Spectrometry (IMS), combined with automatic alarm function and optimised user interface Bruker Detonics RAID family stands for maximum performance, reliable classification and identification in the harsh environment of field analysis.



Biological Warfare Agent Decontamination/
Sterilisation using Decon-Shield

Biological Warfare Agents

Anthrax - US Army West Desert Test Center (Dugway Proving Ground) - Sept 2003

Anthrax - Battelle Memorial Institute, Columbus, Ohio - October 2004

Botulinum Toxin - NSW Police Forensic Counter Terrorism Unit and Queensland Health Services - June 2005

Chemical Warfare Agents

Sulfur Mustard (CEES) - Cetec Labs, Victoria - June 2005

Additional Test Results

Staphylococcus aureus

Escherichia coli

Pseudomonas aeruginosa

Proteus Vulgaris

Methicillin Resistant Staphylococcus aureus (MRSA)

Vancomycin Resistant enterococcus (VRE)

Pending - H5N1 - CSIRO April 2006

Sarin - DSTO April 2006

Key Features

"rapid and excellent biodegradability" (95% over 4 days) - Cetec Labs, Melbourne July 2005

Non-corrosive - "excellent compatibility with all tested metals except Mg. No visible damage to sensitive equipment" - Canadian Govt report October 2005

Skin-Safe - "classified as non-irritant to skin according to NOHSC criteria" - ICP Firefly NATA Labs, Alexandria NSW - October 2005

Applications

- Large or small scale decontamination - vehicles, aircraft, equipment, personnel or whole facilities
- Chemical or Biological warfare/terrorism response
- Disinfection and sanitization in/of hospitals
- Decontamination of affected avian flu sites/facilities

FAST - SIMPLE - EFFECTIVE - SAFE

Therapeutic Goods Act

- ⊕ Pending approval by the TGA, Decon-Shield:
- ⊕ Is not available for supply/sale.
- ⊕ Has not been entered in the Australian Register of Therapeutic Goods
- ⊕ Has not had its safety, quality and efficacy established by the TGA.



Personal Protective Mask

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