

Detection Systems:

DNA detection using
real-time PCR

384-Well plate format
for high throughput

Triplicate Testing to
increase confidence



ABI 7900



IGEN M8
(Electrochemiluminescence Assay)

The M8 utilizes IGEN's patented ECL immunoassay which allows for processing of 96 samples in 20 minutes, much quicker than traditional ELISA's.



**U.S. ARMY
EDGEWOOD
CHEMICAL
BIOLOGICAL
CENTER**

For more information contact:

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STORM
STATIONS OF ROBOTIC MONITORING

**HIGH THROUGHPUT
MOBILE BIOMONITORING
INITIATIVE**



Equipment:

- BIOMEK FX Robotic Lab Automation
- ABI 7900HT PCR (DNA Analysis)
- IGEN M8 (Electrochemiluminescence Assay) Incubator
- Autoclave
- Class II Biosafety Cabinet (6 foot)
- Chemical Glove Box (4 foot, interlocked doors)
- CBR filtration System
- 30 KW Diesel Generator
- Sample Pass Through Port
- Data System Towers
- Sample Refrigerator / Freezer

Capabilities:

- 150 Plus Samples Per Day
- 7 Target Bio Warfare Agents
- Additional target development
- Robotic Sample Prep
- Classical Microbiology
- Deployable via F-450 Truck
- Deployable via Military Air
- Independent Electrical Power
- Shore Electrical Power Connection
- Enhanced Climate Control

System:

- 60 Plus Samples Per Day
- 7 Target Bio Warfare Agents
- Robotic Sample Prep
- Analysis via 2 technologies (Polymerase Chain Reaction (PCR), Electrochemiluminescence (ECL))
- Classical Microbiology
- Operated by 2 People / Shift (Technicians/ Scientists)



Microscope



Biosafety Cabinet

Mobile capability:

- Deployable via F-450 Truck or via Military Air
- Independent Electrical Power
- Shore Electrical Power Connection
- Enhanced Climate Control
- Upgradeable to BSL-3 / BSL-4 for Emergency Situations



STORM Trailer



Biomek FX

Biomek FX performs DNA extraction on environmental sample, and uses purified DNA to prepare PCR assay. Prepared assays are then transported from the Biomek FX to their respective analyzers.



Pass Through and Glove Box

