

veritide™



# The Ceeker™

Bacterial Spore Detection  
for First Responders

Rapid and reliable screening  
against **anthrax**

- > Push-button simplicity
- > No wet chemistry
- > No destruction of sample
- > Easily detect lethal doses

### The Ceeker™ Feature highlights

- > Discriminates between a bacterial spore threat or a hoax in minutes
- > Portable and robust design developed for use by first responders
- > Easy to use. One-button simple. Just press the button and read the display.
- > No wet chemistry, heat, ultrasound or sample destruction
- > No chemicals
- > Battery operated, handheld and lightweight
- > Samples and results are archived for future reference
- > Sealed unit for standard decontamination and re-use
- > Independently tested



### **Easy to use: One-button simple**

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|---------|--|
| Step 1. | A potential bacterial spore threat is reported. The threat may be any unidentified powder material.  |
| Step 2. | The first responder locates the unidentified sample and submits it to the Ceeker™.   |
| Step 3. | The first responder presses the Ceeker's™ analyze button.  |
| Step 4. | Within minutes, the first responder reads the LCD display. Clear yes or no to bacterial spores is presented. No interpretation is necessary. |
| Step 5. | The first responder makes an informed decision on how to proceed. The Ceeker™ is ready for immediate reuse.                                  |

That's all! No complicated sample preparation. No complicated and slow analysis. No sample is consumed, contaminated or destroyed.



### Principal applications

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- > Biohazard detection
- > Suspicious-powder analysis
- > Decontamination testing
- > Building and facilities-management safety

### Principal users

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- > First responders
- > Fire departments
- > Police departments
- > HazMat teams
- > Airport security
- > Port security
- > Postal services
- > Building/Facilities owners/managers
- > Military/Defense teams

### Principal advantages of the Ceeker™

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- > Clear results in minutes. No interpretation required
- > As portable, robust and easy to use as a flashlight
- > No sample is consumed, contaminated or destroyed
- > No wet chemistry. No consumable chemicals or sample preparation
- > Fully re-usable. Test multiple samples without delay
- > Tests spilled powder samples



### **Technology that works on the frontline**

Unlike other bacterial detection systems, the Ceeker™ relies on non-destructive, non-invasive optical analysis. Optical analysis allows detection of bacterial spores, without physically contaminating, consuming or heating the sample.

The Ceeker™ is a fully integrated device, with everything required contained in one lightweight, handheld unit. This includes optical systems, embedded optical recognition protocol software, a battery pack, and an LCD display.

### **Independently tested**

An independent national laboratory has been engaged to verify the detector's optical recognition capabilities. So far these tests confirm the system's ability to detect as few as 3,000 bacterial spores in dry and liquid samples, even in masked samples such as mixtures of spores, dried flour, baking powder, talcum powder and dust. Competing systems typically have minimum detection limits in the range of 10,000 to 10,000,000 spores.

Testing to date applies to proof-of-technology and preproduction development detectors. Further independent testing programs will be undertaken for production models. These programs will be conducted at a range of laboratories, including those specified by regulatory authorities and key customers.





At Veritide™ we specialize in the development of optical-based biological detection and identification solutions. Our philosophy is to incorporate the latest science, innovative engineering and end-user feedback into every stage of our product development cycles. The result is strong end-user partnerships and our uniquely practical and efficient detectors.

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Our market-leading optical technology is based on research conducted at the University of Canterbury. Veritide is backed by venture capital firm Endeavour i-Cap and investment company Ngai Tahu Equities, and technology transfer company Canterprise from the University of Canterbury.

For more information, visit [www.veritide.com](http://www.veritide.com)

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Some statements in this publication refer to preproduction development systems. Performance parameters and specifications for production units have yet to be finalized and independently verified. You are strongly advised to contact Veritide Ltd to receive the latest performance parameters and specifications.

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