

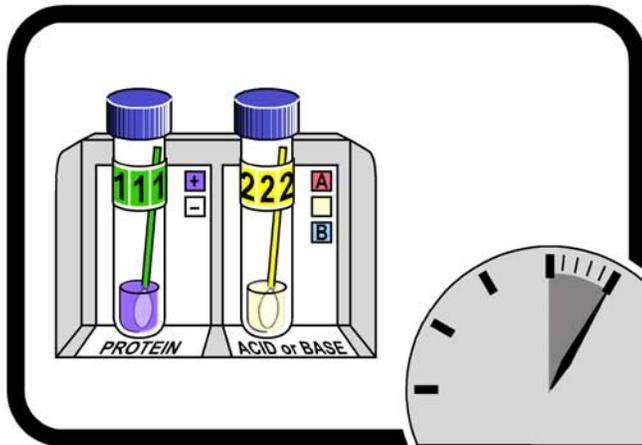
## BIOCHECK™ POWDER SCREENING TEST KIT

20/20 GeneSystems' **BIOCHECK™** Kit helps first responders quickly determine--by looking for a color change--whether a suspicious powder may contain a bio-terror agent. This is the first step in a multi-step system for determining whether a pathogen or toxin may be present.

**Principle** The product works primarily by using **PurpleHaze™** Technology to identify protein, which is found in all living material. All bio-warfare agents—including anthrax and ricin—contain protein. On the other hand, many harmless substances frequently mistaken to be potential bio-terror agents, such as powdered sugar, drywall dust, cornstarch, and many cosmetics—do not. The **BIOCHECK™** Powder Screening Test Kit also includes a pH test that provides additional information about the sample.

### PLEASE NOTE THE FOLLOWING BEFORE USE:

- For use by public safety professionals ONLY. Not for consumer use.
- This product is for FIELD USE ONLY and is not intended for diagnostic or laboratory use.
- Further agent-specific testing by bacterial culture, DNA testing and/or antibody tests is required before a definitive assessment can be made as to whether a particular pathogen or toxin is present.
- Some safe substances that contain protein—such as baker's yeast—will test positive with the **BIOCHECK** Kit. Thus, further testing is always required if a positive result is seen.
- This product is designed to identify the presence of visible quantities of toxins or pathogens. It is not intended for environmental sampling or monitoring.
- To be detected, the bio-hazardous material must be present in amounts of equivalent to 100 µg or more (approximately half the size of a pencil eraser).



**Method** The protocol is fast and easy to perform. A sample is first collected on two chemically treated swabs which are provided with the kit. Each swab is then immersed in a solution that produces a color change within five minutes indicating whether protein is present in the sample.

### IMPORTANT:

**1.** Use only the swabs provided in the kit. **2.** Hold the tube against the rack when removing the caps. The kit contains a protein positive control that is used **only** if a negative result for protein is obtained. When it is used, make sure the head of this swab is fully immersed in the solution at the bottom of protein test tube.

### Examples of Results Obtained with the **BIOCHECK** Kit

Sample	Protein Test	pH Test	CONCLUSION
Potential pathogen or toxin or harmless substance containing protein (e.g., anthrax, ricin, yeast, cornmeal)	<b>PURPLE (+)</b>	<b>PALE YELLOW</b>	Further testing required: proceed to agent-specific test
Unlikely to be a bio-threat (e.g., sugar, cornstarch, dry wall dust)	NO CHANGE (-) <b>AND</b> Positive Control <b>PURPLE (+)</b>	<b>PALE YELLOW</b> OR <b>RED</b> or <b>BLUE</b>	BIOLOGICAL THREAT UNLIKELY

Technical support: during business hours (E.S.T. 9AM to 5PM) 240 453-6342.  
At all other times: 202-669-5189

To reorder call Alexeter Technologies toll-free: 877-591-5571  
Catalog Number: K-2500 BioCheck Screening Kit

**1** Remove tube carrier, remove swab pouches.

**2** Place on level surface, take caps off (don't swap caps).

**3** Open **PROTEIN DETECTION** pouch, rub swab in sample, place swab in **PROTEIN** tube (1).

**4** Open **pH MEASUREMENT** pouch, rub swab in sample, place in **ACID** or **BASE** tube (2).

**5** Put caps on tubes, wait 5 minutes.

**6** Evaluate liquid colors:

ACID or BASE test	<b>A</b> Acidic sample
	<b>N</b> Neutral sample
	<b>B</b> Basic sample
PROTEIN test	<b>+</b> Likely to contain biological material
	<b>-</b> Not likely to contain biological material

If PROTEIN test is negative (no color change), then perform confirmatory test:

- Open **CONTROL** pouch, but *do not* rub in sample.
- Place swab *directly* in **PROTEIN** tube (1) where it is visible.
- Immerse swab in liquid (shake if needed).
- Wait 5 minutes, then evaluate color in **PROTEIN** tube (1):

**Potential biohazard. Agent-specific testing required.**

<b>+</b>	Test valid.
<b>-</b>	Test not valid: test again with new kit or proceed to agent-specific test.