

# QuikTest™ HHA

## Hand-Held Assay Pre-Screening Kits

IDENTIFY: Biological Agents

## QuikTest HHA: New Paradigms in Biological Threat Screening



*QuikTest HHA: Including one of the world's largest hand-held assays (HHA) capable of simultaneously identifying up to 8 different biological threat agents.*

for first responders, public safety workers, facility security and military personnel with high sensitivity and specificity against common bioterror agents, including eight recognized by the US CDC as highest risk if used in a terrorist attack: *Bacillus anthracis* (Anthrax), *Francisella tularensis* (Tularemia), *Yersinia pestis* (Plague), *Brucella spp.*, Botulinum toxin A, Ricin, Staphylococcal Enterotoxin B (SEB) and orthopox (smallpox surrogate). These assays have been developed using highly sensitive and specific antibodies to give rapid high-performance assays with results in 15 minutes. RAID strips are also available in one-agent and 5-agent formats and with sample collection materials as kits.

### Other Test Strips

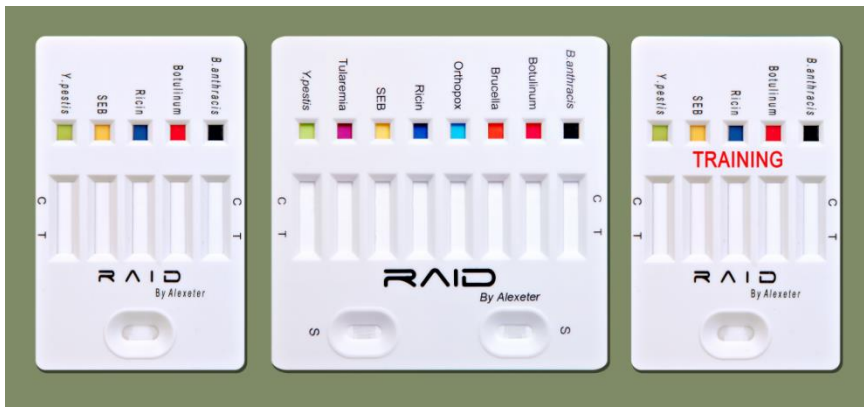
Research International can supply HHA test strips to identify the presence of other biological threats including adenovirus, brucellosis, *Campylobacter*, caliciviruses, Chagas, chikungunya, *Clostridium perfringens*, *Cryptosporidium*, Dengue, Ebola, *E. coli* O157:H7, *Entamoeba histolytica*, Giardia, Glanders, Hepatitis A, *Toxoplasma gondii*, Legionella, Leishmania, Leptospirosis, Listeria, Malaria, Melioidosis, Mycotoxins, Q fever, RSV, *Salmonella sp.*, *Shigella* species, Typhus, and pathogenic *Vibrios*. Contact us for agents not listed here.

### FEATURES

- Hand-held
- Fast
- Economical
- Tests for:
  - *Bacillus anthracis*
  - *Francisella tularensis*
  - *Yersinia pestis*
  - *Brucella spp.*
  - Botulinum toxin A
  - Ricin
  - Staphylococcal enterotoxin B
  - Orthopox
- Customizable

### APPLICATION AREAS

- First responders
- Public safety



Examples of RAID™ high-performance immunoassay strips and pre-programmable trainers.

## Lateral Flow Principles of Operation

The test strip is a lateral-flow immunochromatographic device that uses two antibodies in combination to specifically detect the antigen in solution. One of the specific antibodies is labeled with a colloidal gold derivative. When sufficient antigen is present, the colloidal gold label provides a reddish-brown colored line that is visualized after accumulating in the test sample region on the device. When a sample is added to the test strip, the sample begins to mix with the colloidal gold-labeled antibody and simultaneously moves along the strip membrane by capillary action. In the sample region of the test strip, if the antigen is present, the second specific antibody captures the colloidal gold-labeled antibody and bound antigen, forming a colored line or band in the sample window of the test strip. As an internal control, a second band will appear in a control window and is an indication that the test strip functioned properly. Two bands or colored lines are required for a positive result determination.

## Training

Research International has available a complete set of training tools designed to mimic the performance characteristics of test strips. RAID™ Trainers are designed to replicate the actual performance characteristics of a biothreat detection kit and allow the instructor to provide hands-on training to demonstrate the proper use of hand-held assays without exposure to live agents. In return, valuable insights are learned regarding how HHA's perform in a real world environment, safely and effectively. RAID™ trainers are pre-programmed to the instructor's requirements, providing a positive result for any one of five biothreats he or she may be illustrating to the class: *B. anthracis*, Ricin toxin, Botulinum toxin, *Y. pestis* (Plague) or SEB.

## Kits

Research International also provides customers with standard or custom sampling kits. Standard kits include a RAID-8 HHA, collection swab with sample buffer, resealable plastic bag for collection of waste materials, biohazard label, and instruction booklet. Please contact us for your custom sampling kit needs.

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