



codeac  
SOLUTIONS

## COLORIMETRIC NUCLEAR DETECTION

We specialize in developing cutting-edge products for rapid detection and management of nuclear threats. Our technology delivers results in under 60 seconds with specificity and high sensitivity.

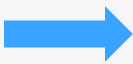


## WATER TEST KIT

Our products show an immediate visual color change when in contact with Uranium, Plutonium, Americium, Cobalt and Primary Transition Metals at trace levels.



Neat  
Codeac



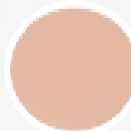
Less than  
60 seconds



U



Pu



Am



Co



Primary  
transition  
metals

## OUR PRODUCT RANGE



Nuclear  
Detection wipe



Single Use Test



Water Test



Soil Test

# SIMPLE AND EASY-TO-USE COLORIMETRIC NUCLEAR DETECTION

1



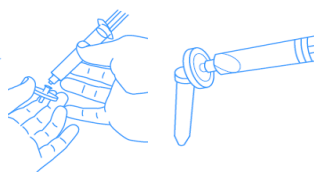
Wear appropriate PPE, as required by your organization.

2



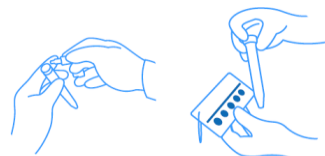
Use a beaker to collect a water sample and let any sediment settle for up to 5 minutes. Draw 10ml of the water sample into the syringe.

3



Attach a filter to the syringe, slowly push the water sample through the filter into the mixing tube. Add the Codeac Liquid Solution to the mixing tube. Secure the lid and mix thoroughly.

4



Observe and wait up to 60 seconds for results. Use the Color Standard Card to identify any colorimetric change or transition.

## Technical specification:

## Water Test



Scan for Water Test Video

5 single-use individually packaged water test kits, included all the required sampling instruments and a single use ampule containing our detection liquid solution, enough for one test. Available in custom sizes upon request.

Detection capability	Uranium, Plutonium, Americium, Cobalt and Primary Transition Metals e.g. U-233, U-234, U-235, U-236, U-238, Pu-239, Pu-241, Pu-242, Am-241, Am-243, Co-60
Detection principle	Colorimetric elemental detection
Sensitivity	Uranium - 2.4ppm   Plutonium – 242ppm   Americium – 2.4ppm   Cobalt – 590ppb
Dimensions	Single Water Test Bag: H21cm x W13cm x D4cm   Stand-up pouch: H30cm x W25cm X D12cm
Total Kit Weight (approx.)	366 grams
Kit Color	Stand up pouch: white
Amounts of tests	5 tests
Response time	Under 1 minute
Contents	5 x Single Use Water Test Kits including: 1 x beaker 1 x filter 1 x disposable gloves in bag 1 x mixing tube (with results label) 1 x single use ampule 1x permanent marker 1x instruction card 1 x color standard card 1x Molle Pouch (Black, Khaki or Coyote Brown) or 1 x Stand up pouch
Available accessories	Replenishment kits available
Sample introduction	Water, Soil and Sand
Transportability	Pocket size
Calibration	Not required
Expiration	2 years
Power supply	Not required
Training required	Not required
Maintenance cost	Nil
Manuals provided	Instruction and Color Standard Card, Safety Data Sheet and Operating Manual

Products are subject to availability. Company reserves the rights from time to time, in its sole discretion and without liability to change, add or withdraw Products.