



COLORIMETRIC DETECTION - NUCLEAR URANIUM AND PLUTONIUM

CodeNu provides simple, accurate and reliable contamination detection tool. It is a valuable capability for military, first responders, customs & borders, mining operations, and medical facilities handling radioactive and toxic materials.



RAPID VISUAL COLOR CHANGE WHEN IN CONTACT WITH URANIUM OR PLUTONIUM

WHY USE CODENU?

- Accurately detects trace levels of alpha/ beta emitters
- Wet or dry wipe; ready to use straight from the packet
- Accurate results within minutes
- On-site results
- Easy to use with minimal training
- Low-cost and scalable
- High sensitivity
- Easy-to-interpret results
- Quickly identifies contamination across various surfaces and materials (equipment, floor surfaces, clothing)
- No power or maintenance required

HOW TO USE

- 1 Wipe area suspected of contamination
- 2 Compare to color standard. A color change indicates the presence of uranium or plutonium



No Detect

Detect



Our advanced colorimetric detection capabilities have been developed within United States National Laboratories and National Security Complexes. Our products include wet and dry wipes. We are continuously enhancing our colorimetric technology through ongoing research and development with further product variations coming soon. Our story is one of continuous innovation. Stay connected with us for our future developments.

OUR PRODUCTS

Wet Wipe



Dry Wipe



Click here
to watch videos
or scan below



SPECIFICATION

Detection Capability	Uranium and plutonium (All isotopes).
Forms Detected	Uranium metal, oxide, hydroxide, acetate, nitrate, fluoride, carbonate, and ore - in both solid and aqueous forms. Plutonium: detects key isotopes and compounds encountered in civil, defense, and emergency response applications.
Product types	Pre-soaked wet wipes and dry wipes with spray bottle.
Detection Level	2-5 µg per 100 cm ² for U, as low as 1 ppm for U in solution; ~0.2-0.5 µg per 100 cm ² for Pu. LoD results from company and independent testing.
Dimensions	Wet wipe and dry wipe packaging: 8.62 cm x 7 cm / 3.4" x 2.75" Internal wipe size: 10.2 cm x 10.2 cm / 4" x 4" Box Dimensions for 100 wipes: W 20 cm x H 15 cm x D 10 cm / W 7.9" x H 5.9" x D 3.9".
Wipe Weight (approx.)	Individual wipe: 6 g / 2 oz Box of 100 wipes: 800 g / 1.76 lb.
Color	Wet Wipe Packaging: Blue Dry Wipe packaging: White Internal Wipe: Yellow/Orange.
Amount of Tests	1 wipe per test Boxes of 20, 50 and 100 wipes.
Response time	Fast results – 15 minutes or less. Results vary based on solubility of sample.
Expiration	18-24 months.
Operational temperature	32-122 degrees F (0-50 degrees C).
Subsequent Analysis	Compatible with ICP.
Potential interferences	Primary interferences are zinc, which can produce a pink result, and heavily oxidized copper, which can produce a purple result. In contrast, uranium/plutonium produces a deep maroon/ purple color. In these circumstances we recommend using our CodeNu dry wipes as they dramatically reduce or eliminate interferences. Strong acids and bases will leech the product. Tests are for qualitative / indicative purposes only.
Potential discoloration	Liquid from CodeNu wet wipes may cause discoloration of surfaces. This is a colorimetric test that uses a dye, therefore excess liquid may stain surfaces if not cleaned immediately.
Export Controls	(1) ECCN 1A004 (2). Group B controlled item and will only be sold & shipped to selected allowable countries. Customers warrant they will not cause items to be shipped to non-compliant countries.

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

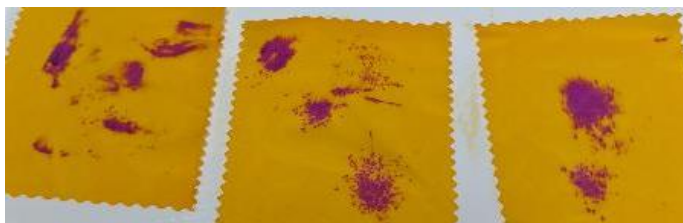
Uranium Metal (Wet wipe)



Uranyl Carbonate



UF₄



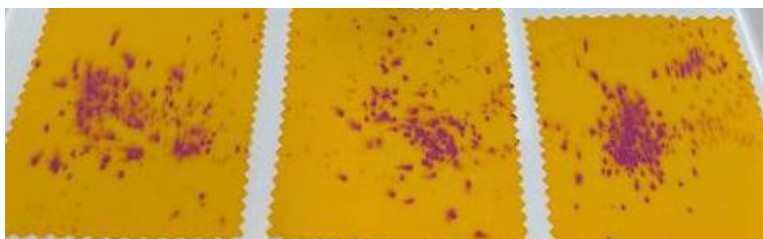
UO₂ (Dry wipe)



Uranium Nitrate



Uranium Acetate



Uranium Hydroxide



UO₂ (Wet wipe)

