Independent Forensics

Field Kit for Rapid Stain Identification of Urine (RSID™)

Provided Protocols #4000, #4000-10, #4000-10A

General Guidelines

The RSID™-Urine Field Kit is designed for fast, easy, and reliable detection of urine from cotton swabs and a variety of fabrics encountered by forensic laboratories. Alternatively, detection of urine from liquid samples is possible if a portion of the liquid sample is first absorbed onto a swab.

No other human body fluids tested cross-reacts with RSID™-Urine, but consideration must be taken if the presence of blood is suspected as the presence of blood may inhibit the detection of urine from RSID™-Urine strip tests.

Components of RSID™-Urine Field Kits (5 or 10 tests)

- ***5-10 clear plastic bags*** - each bag contains all of the components needed to sample an individual stain or unknown liquid. RSID™-Urine cassette, plastic transfer pipette, and cotton swabs. All testing components are intended for single use only.
- ***5-10 sample tubes***- each with pre measured (1 mL) extraction /running buffer.
- ***Sample tube rack***- holds 5 tubes during extraction.
- ***Optional items –*** evidence envelopes and scissors

Sample Collection

For testing with RSID™-Urine, forensic samples deposited on fabric or cotton swabs should be extracted for 1 hour. If possible, we recommend extracting a whole swab or a larger piece of fabric (*i.e.* ~ 16-18 mm in diameter) for extraction in the field kit tube included in the kit.

If testing a liquid sample, the sample should be absorbed onto the provided swab –the swab should be immersed in the liquid sample and quickly removed (immersion time of no longer than 1 second is necessary).

The swab (wet as above or dry if previously collected and stored) should be placed in the provided extraction tube and the head of the swab 'broken off' inside the tube with an abrupt movement by pressing against the side of the tube until the swab head breaks into the tube.

Liquid samples may also be 'sponged' onto the swab head, and again, the swab head 'broken-off' into the extraction tube.

It is not necessary to allow the swab to dry prior to soak/extraction, though dried swabs can certainly be used. Dried swabs are treated identically as wet swabs in this technique.

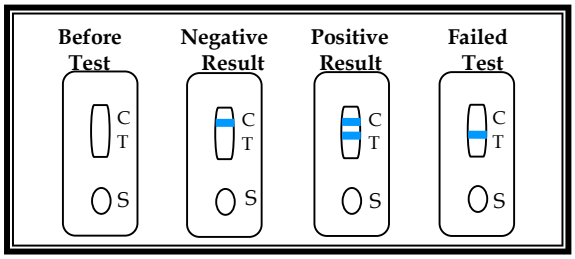
Protocol

1. Remove plastic bag containing single use components.
2. Collect sample as described in *Sample Collection* (see above).
3. Break off swab head into the extraction tube (see *Sample Collection*, above).
4. Close extraction tube and shake vigorously.
5. Incubate sample in extraction buffer – wet swabs need only be incubated for 10 minutes, dry swabs or older swabs may require a 1 hour incubation; room temperature is recommended.
6. After incubation / soak step, remove RSID™-Urine cassette from sealed foil pouch.
7. Using provided transfer pipette, place **5 drops** of extraction /soak solution into the sample well of the cassette (circular well indicated by "S" on the cassette). Note time.
8. After 15 minutes, score cassette as positive or negative based on the presence or absence of a blue line at the test position. See *Result Interpretation,* below.
9. Document the results and information regarding the sample. We recommend photo documentation prior to discarding used cassette. Alternatively, the RSID™ Reader may be used to document and score the results of the test.

Result Interpretation

RSID™-Urine should be evaluated exactly 15 minutes after sample addition. Possible results are:

1. A single blue line at the Control (C) position indicates that ***no*** urine was detected.
2. Two blue lines (at both the Control, C, and Test, T, positions) indicate that ***Urine*** was detected.
3. A single blue line at the Test (T) Position indicates a failed test, no conclusion possible.



Independent Forensics
500 Waters Edge, Suite 210, Lombard IL 60148
p 866.434.2400, f 708.978.5115
WWW.IFI-TEST.COM/RSID™-URINE