



SwabTek
Veriteque USA, Inc.

Liquid Threat/Explosives Detection Test Kit

User Manual/CONOPS

Hardware Version • LTD Gen 2
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USER MANUAL

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 1. We warrant to you, our direct customer, that each Product manufactured by us and sold to you under these Terms will be free from material defects in workmanship and materials under normal use for one (1) year from the date of delivery ("Warranty"). You may not return a Product unless authorized by our Returns Authorization (RA) Department. If you believe your Product does not meet the Warranty, cease use immediately and contact SwabTek. If a Product proves to be defective in materials or workmanship within the Warranty period, we will repair or replace the defective Product and send it to you at our expense.
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9. Export Restrictions. You acknowledge that each Product and any related technology, including technical information we supply you, including those contained in product documents (collectively "Items"), is subject to U.S. government export controls. The export controls may include, among others, those of the Export Administration Regulations of the U.S. Department of Commerce (the "EAR"), which may restrict or require licenses for the export of Items from the United States and their re-export from other countries. You must comply with the EAR and all other applicable laws, regulations, laws, treaties, and agreements relating to the export, re-export, and import of any Item.
10. Miscellaneous. This Agreement is made and entered into for the sole protection and benefit of the parties hereto, and no other person or entity shall be a direct or indirect beneficiary of, or shall have any direct or indirect cause of action or claim in connection with this Agreement. The Agreement and performance under it will be governed by the laws of the State of California, United States, without reference to choice of law provisions, and all actions brought to enforce or interpret the Agreement and any all disputes hereunder or in connection herewith, including any negotiations relating thereto, shall be heard exclusively in the state and federal courts located in San Diego, California, which courts have exclusive jurisdiction over all disputes relating hereto. The U.N. Convention on Contracts for the International Sale of Goods is hereby expressly excluded. IN THE EVENT ANY REMEDY HEREUNDER IS DETERMINED TO HAVE FAILED OF ITS ESSENTIAL PURPOSE, ALL LIMITATIONS OF LIABILITY AND EXCLUSIONS OF DAMAGES SET FORTH HEREIN SHALL REMAIN IN EFFECT TO THE MAXIMUM ALLOWED BY APPLICABLE LAW. We will not be responsible or liable for failing to perform our obligations under the Agreement to the extent such failure is caused by, or to the extent we cannot perform due to, circumstances beyond our reasonable control, including without limitation acts of God and nature, embargoes, war, acts of war (whether war be declared or not), terrorism, insurrections, riots, civil commotions, strikes, lockouts, or other labor disturbances, government actions, fire, earthquakes, floods, epidemics, pandemics (whether declared or not), and any actions we take to comply with applicable laws, directives, pronouncements or guidelines issued by a governmental entity relating to pandemics, such as quarantines and sheltering in place. In certain situations, we may use our reasonable judgment and apportion Products then available for delivery fairly among our customers, or may terminate your order without liability to you. Our failure to exercise any rights under the Agreement is not a waiver of our rights to damages for your breach of contract and is not a waiver of any subsequent breach. If any provision or part of the Agreement is found by any court of competent jurisdiction to be invalid or unenforceable, such invalidity or unenforceability will not affect the other provisions of the Agreement. This Agreement binds the parties' successors and permitted assigns. Headings are for convenience only and shall not be used in the interpretation of these Terms. Any notice or communication required or permitted under these Terms must be in writing and will be deemed received when delivered by commercial courier, or 3 business days after being sent by certified mail, postage prepaid, to a party's specified address. Notices to SwabTek must be sent to the attention of its General Counsel. No waiver, consent, modification, amendment or changes to the terms of this Agreement will be binding unless in writing and signed by both parties. Our failure to object to terms contained in any subsequent communication from you is not a waiver or modification of this Agreement.



SwabTek Testing Standards

SwabTek test kits meet or exceed the testing standards established by:



**National Institute of
Justice**



Standards Council of Canada
Conseil canadien des normes

**Standards Council
of Canada**



**United Kingdom Home
Office Scientific
Development Branch**



**European Civil
Aviation Conference**

SwabTek's tests are validated against these standards by third-party testing authorities. Independently prepared reports from this third-party testing are available upon request.

As presumptive color tests, SwabTek Test Kits are classified as a Category C analytical technique for analysis of seized drugs under the guidelines outlined by SWGDRUG. As Category C forensics tools, SwabTek's tests are admissible in court for determining selectivity through General/Class chemical identification.

SwabTek Kit	Relevant Standard	Testing Authority
Dry Explosives Test Kit	ASTM E2677-20 SCC	UK-HOSDB UK-MPS DfT
Liquid Threat/Explosives Detection Test Kit	ECAC/EU LEDS - Standard 3 Type A SCC	ECAC CEP
Narcotics Test Kits: Amphetamine, Cannabis, Cocaine, Fentanyl+, Heroin	ASTM E2329-17 ASTM E2548-16 ASTM E2882-19 NIJ Standard-0604.01 SWGDRUG SCC	MRI Global



Introduction

Veriteque USA, Inc.'s SwabTek Liquid Threat/Explosives Detection Test is a simple, intuitive identification test that can be used to screen for various types of explosive materials, pre-cursors, and residuals. The Liquid Threat Detection Test Kit (LTD) is a single use, dry reagent-based spot test that is specifically designed to test for explosives substances in liquids, aerosols, gels and creams.

The test consists of two separate pieces, a test swab and a test card, that come sealed in an air- and water-proof sachet. With just a single swab and test card, the user can conduct the three separate stages of the Liquid Explosives Test to screen for a variety of potential explosives indicators.

The test stages are as follows:

- Test Stage 1: Peroxides
- Test Stage 2: Solvents & Fuels
- Test Stage 3: Acids & Bases

Unlike the industry standard tests that are dangerous and overly complex, the LTD test does not require any hazardous liquid chemicals, dropper bottles, or pressurized spray cans. The test also avoids procedures like breaking glass ampoules, or scooping, mixing and pouring samples.

Since the LTD tests are lightweight, durable, and non-hazardous, they can easily be stored in wallets, pockets, or glove compartments for easy access and use on the go.



How the Test Works

SwabTek's test is designed to detect a broad array of liquid threats. This is done by passing the liquid sample through a three-stage test, each stage of which will identify a separate class or category of liquid threats. A positive result on any of the three stages constitutes a positive result for a liquid threat.

Beyond the broad categories of each of the test stages, this test cannot be used to discern which liquid threat is present in the sample, or how many different threats may be present. The test will not show how much of the threat is present, how it is distributed across the sample, or how concentrated the sample is.

Presumptive tests are not designed to give certain results and cannot replace a full lab analysis of your sample. A presumptive test cannot be used to assert that substances are safe and cannot be used to assert that substances are illegal.

If you get a:

- **Positive Result on Any Test Zone** - It can be presumed that a threat liquid is present.
- **No Result** - A threat liquid cannot be identified in a detectable volume, so it cannot be presumed that a liquid threat is present. In the case of a negative, it is possible that a threat liquid may not be present, may be present in an undetectable volume, or that it may be present and may be undetectable for another reason (a false negative result).



What the Test Detects

The SwabTek LTD Test is broken into three stages, each of which is designed to target a separate class of liquid threats. The three tests and corresponding categories are detailed below, with examples of common compounds.

Test Zone 1: Peroxides

- Peroxy acids
- Metal peroxides
- Organic peroxides (hydrogen peroxide, etc.)

Test Zone 2: Volatile Organic Solvents & Fuels

- Solvents (acetone, benzene, chloroform, etc.)
- Fuels (diesel, high percentage alcohols, etc.)

Test Zone 3: High-Concentration Acids & Bases (pH Test)

- Acids (sulfuric acid, hydrochloric acid, nitric acid, etc.)
- Bases (hydrazine, etc.)

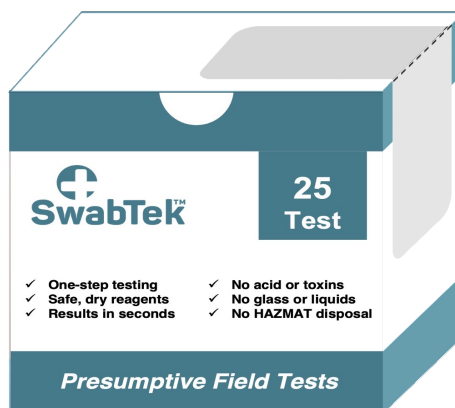


Test Kit Packaging

The new SwabTek LTD Test Kit is sold in boxes of 25.

Each carton is labelled with the variety of test, and the number of total tests found in the carton.

In addition, each box is marked with information about the manufacturing lot, including the lot number. This information is found on the side of the box, and on the label.





LTD Test Sachet

The test consists of two pieces delivered in a single, air-tight sachet. Each sachet is equivalent to one, single-use test.

The front of the sachet is labelled with the SwabTek logo, and the name of the kit in the top right corner.

The sachet is also marked with basic information that is standard to all SwabTek Test Kit products, including the URL to the products' terms of service (www.swabtek.com/terms).

The manufacture date is imprinted onto the seal that closes the sachet. Although there is no formal expiration for the LTD Test, it is recommended that tests are used within 5 years from the manufacture date.

The front of the sachet is also printed with the formal EU Stamp denoting the product's EU approval, along with a QR code that links to the product's entry in the KSDA database.

The sachet measures 4.25" x 4.50" and is divided into two compartments. The narrower compartment on the left side of the sachet houses the Test Swab, and the right side houses the Test Card.

To open the sachet and access the components of the test, the user must tear open the sachet along the dotted line at top.

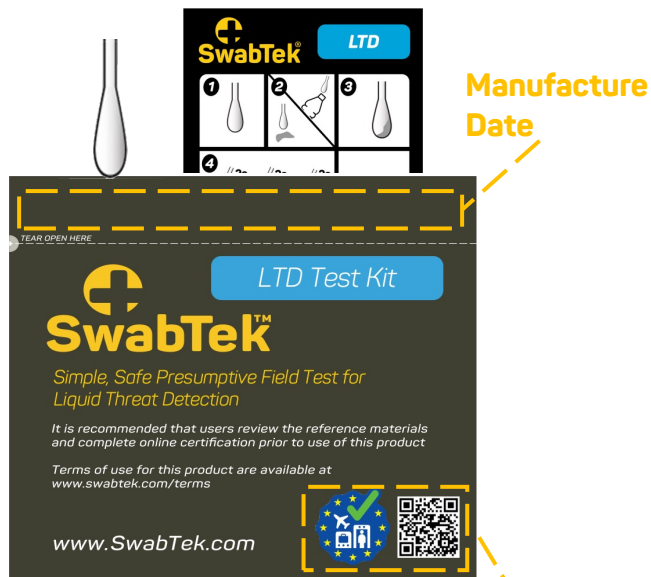
The top of the sachet must be removed completely to access the two separate compartments.

Test Name



Test Swab Compartment

Test Card Compartment



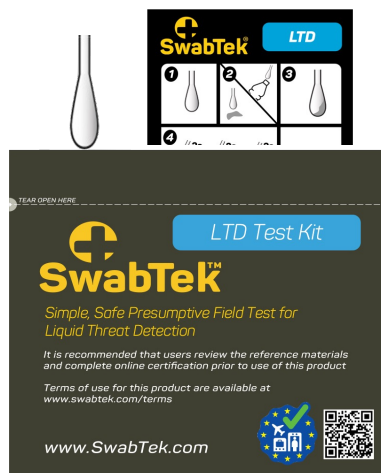


Contents

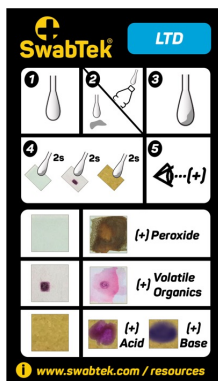
The SwabTek LTD Test Kit consists of two pieces, delivered in a single, sealed sachet.

- 1 x dry SwabTek Test Swab
- 1 x reagent-treated dry paper SwabTek Test Card

Dual-Compartment Sachet



Test Card



Test Swab

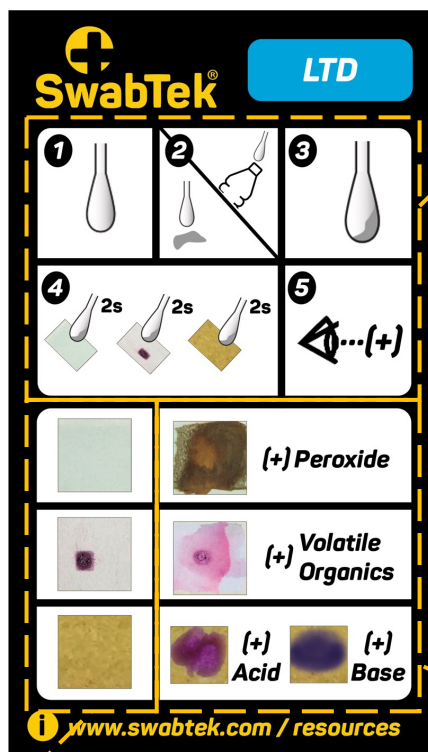




Test Card

The SwabTek LTD Test Card is a 3.5" x 2" paper card that consists of three separate sections. The top right corner of the test card is printed with the name of the test.

- 1. Instruction Panels:** These five images illustrate the steps in the testing process and are available here for the user to reference. A complete description of the stages is available in the later sections of this manual.
- 2. Test Zones:** This is the site of the reagent zones that will be used in conducting the test. When combined with the sample from a test swab, each reagent will be responsible for a color change that will indicate the presumed presence of a category of liquid threat. From top to bottom, the reagent zones are referred to as Test Zones 1, 2, and 3. Since the reagents are printed onto the test zone in a powder form, they may be inadvertently removed from the paper card by physical abrasion or rubbing or contaminated by contact with another object. To avoid abrasion or contamination, the user should avoid holding the card by the test zones.
- 3. Color Reference Panel:** This color panel provides a quick reference guide for the colors that are indicative of a positive test for the presumed presence of the liquid threat in question. Though the user should be familiar with the full color reference materials available in the manual, this panel can provide a quick reference for field-use of the test kits.





Test Swab

The test swab is provided to help isolate and collect suspect residues and transfer the samples to the test card's test zones for analysis. Each test swab should be dry.

To avoid contamination of the test swab, the user must hold the swab by the shaft only and must not set the swab down on any surface prior to testing.

To aid in this, SwabTek recommends leaving the swab within its compartment of the sachet until the user is ready to start sample collection.

If the tip of the test swab is dampened, or does not appear clean, it may be an indication that the test's sachet has been compromised. An unclean swab may hinder the ability of the user to collect an appropriate sample. In this case, it is recommended that the tester use a new swab.





General Procedure

The user will collect the liquid sample with the test swab. The test swab with the sample will then be combined with each of the reagents in the three test zones on the card. The same sample and swab will be used at each stage in sequence.

When a sample containing a detectable explosive or other liquid threat substance is transferred to, and mixed with, one of the three reagent zones, the presumptive identification of the corresponding class of liquid threat is indicated by an intense and rapid color change in the reagent. Depending on the nature of the sample, this color change may occur on the swab, on the reagent zones of the card, or on both surfaces. For this reason, it is essential that the user check both the swab and card for indication of color change at each stage in the test.

The color change of a positive result should be very rapid and permanent, and though the color may vary in intensity and hue due to the potential varied nature of sample compounds, it should contain the primary color expected of a positive result. The development of this primary color indicates a positive result for the presumed presence of the category of threat.

For example, the primary color indicative of a positive result for the first reagent zone on the card is BROWN. Any indication of the development of the color brown suggests a positive test result, even if the color that develops varies in hue and intensity from the examples provided in SwabTek's product resources.



General Procedure (contd.)

NOTE: A positive result in any of the individual test stages (Test Zone 1, Test Zone 2, Test Zone 3) is sufficient indication of the presumptive presence of explosives or explosive precursors and is therefore a positive result for the entire LTD test. If a positive result is identified prior to the final stage of testing, the user need not complete the remaining stages, and can consider the overall result a positive test.

Following the testing procedure, it is recommended that users take photographic record of the test result, both the LTD card and swab, as well as the sample itself, and note the date, time, and conditions of the test (location, lighting, temperature, etc.).

Although the color change present in a positive test result is permanent, the hue and intensity of the color may change over time with continued exposure to air, even if the test components are sealed, so a test result that is more than a few minutes old can no longer be considered valid for visual analysis. If a proper reading or a well-lit and color-balanced photograph is not captured in this timeframe, the user may be required to re-do the test.

Following the completion of this procedure, the LTD card, swab, and sample in question should be sealed in separate, secure, dry and air-tight storage if required for evidence. Otherwise, the test can be disposed of via recycling, or in accordance with local waste regulations. The LTD card and swab do not contain any dangerous or hazardous materials, and do not require any special disposal procedures (acid neutralization, HAZMAT disposal, etc.)

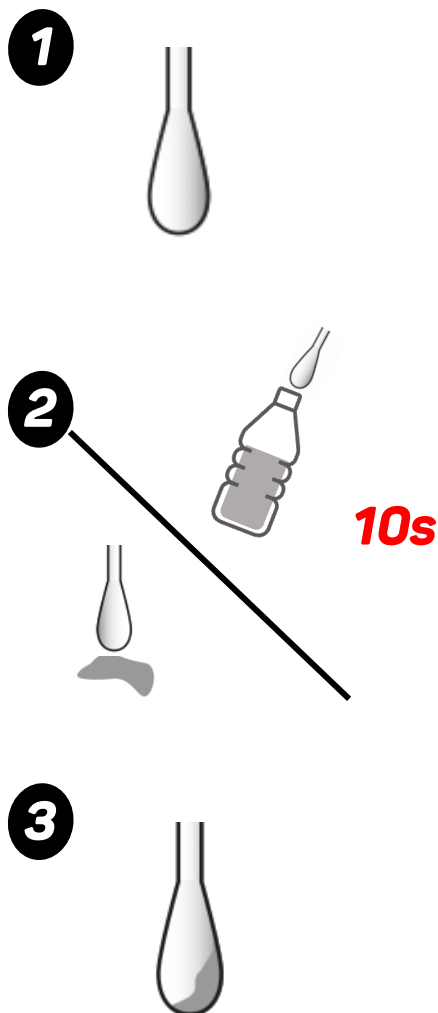


Sample Collection

The first step of the test is to gather the sample. The user should open the LTD sachet and withdraw the swab from the packaging. The swab should be held perpendicular to the liquid test substance to ensure that the sample collection is concentrated on the tip. The user should then dab on and around the sample for a minimum of 10 seconds.

The swab should be dabbed with enough pressure that the liquid test substance is collected or absorbed into the tip of the swab, but not so vigorously that the substance is disturbed or that the sample is pressed off the swab's tip. The user should aim to collect as much liquid test substance as possible directly on the tip of the swab and avoid tilting or swiping the swab across the test surface. A more highly concentrated sample collection will help to ensure that any potential positive results in the subsequent test stages will create strong and definitive color changes. If the liquid test substance is visible to the naked eye, the user may inspect the tip of the swab to ensure that the substance is being collected properly, ensuring to keep a safe distance.

Once a reasonable amount of test substance has been collected, the user should proceed immediately to the next phase of the testing procedure.





Conducting the Test

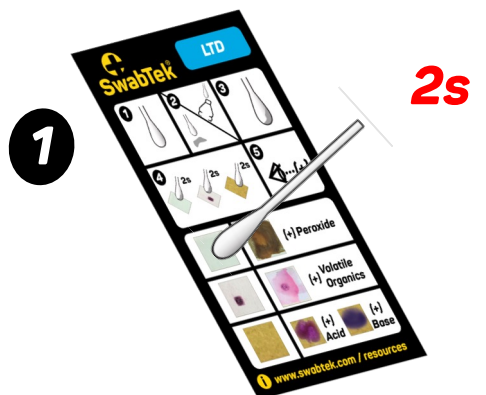
Once you have collected your sample, you will combine it with the reagents printed in the Test Zones of the SwabTek Test Card. This is done by dabbing the tip of the swab into each of the three test zones in succession from Zones 1-3. Each dab should take 2 seconds.

If a detectable liquid threat was picked up in your sample, the reagents of the corresponding Test Zone will change color to indicate a positive result. This could happen immediately or take up to 5 seconds. Be sure to check both the reagent zones and test swab tip for any signs of color development.

The user may stop between each test stage to review the stages that are already completed. If any stage of the test has already produced a positive result, the user need not continue with the remaining stages of the test.

If a positive color result is produced in any Test Zone within 30 seconds, the result of the entire test is **positive**.

If no positive color change develops within 30 seconds, the result of the entire test is **negative**.





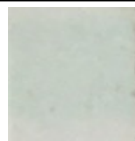
Test Zone 1

The first LTD test (Test Zone 1) should be a solid rectangle that is light blue in color, situated at the top of the reagent area of the test card. If the test zone on your card does not contain the square of reagent, or the reagent square is not as expected, try using a different test card. If the issue persists, contact a member of the SwabTek team and be prepared to submit pictures.

Note: The presence of the blue color of the reagent, or a water-diluted hue of this color, does not indicate a positive result during testing. The color development indicative of a positive result will be distinct and separate from the color present in the reagent. It is recommended that users trial a negative result using a blank swab and distilled water in order to assess the color effects of the reagent during testing.

The first Test Zone of the LTD screens for the presumed presence of Peroxides.

Test Target Chemical Group	Color Change for Positive Result	Color Development Time
Peroxides	Brown/Black	10 seconds

Test Result	Color Reaction	
Positive for Peroxides	Development of Brown/Black Color	
Negative for Peroxides	No Color Development	

Notes

Some cosmetic products containing alkaline ammonia or other peroxide compounds may cause False positive results for this test.



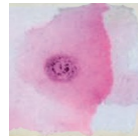
Test Zone 2

The second LTD test stage (Test Zone 2) is indicated by a small dark purple square in the second panel of the test area of the card. If the test zone on your LTD card does not contain the square of reagent, or the reagent square is not as expected, try using a different LTD card. If the issue persists, contact a member of the SwabTek team and be prepared to submit pictures.

Note: The presence of the purple color of the reagent, or a water-diluted hue of this color, does not indicate a positive result during testing. The color development indicative of a positive result will be distinct and separate from the color present in the reagent. It is recommended that users trial a negative result using a blank swab and distilled water in order to assess the color effects of the reagent.

The second Test Zone of the LTD screens for the presumed presence of Volatile Organic Solvents and Fuels (Acetone, Diesel, high percentage-alcohol).

Test Target Chemical Group	Color Change for Positive Result	Color Development Time
Organic Solvents	Fluorescent Pink/Red	10 seconds
Fuels	Pink/Gold Hue	10 seconds

Test Result	Color Reaction	
Positive for Solvents and/or Fuels	Development of Pink Color	
Negative for Solvents and/or Fuels	Dilution of the Purple Color of Reagent Square	

Notes

High percentage alcohol and solvent-based products (some pharmaceuticals and cosmetic products) can cause False positive results. Purple reagent may be absorbed into swab tip during testing, causing a light pink discoloration. This is not a positive result, as color change is not result of new color development. It is recommended that users familiarize themselves with a negative result for this test stage prior to field use.



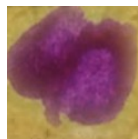
Test Zone 3

The third LTD test stage (Test Zone 3) is indicated by a grainy yellow/gold rectangle in the lowest section of the reagent area of the test card. If the test zone on does not contain the square of reagent, or the reagent square is not as expected, try using a different LTD card. If the issue persists, contact a member of the SwabTek team and be prepared to submit pictures.

Note: The presence of the yellow/gold color of the reagent, or a water-diluted hue of this color, does not indicate a positive result during testing. The color development indicative of a positive result will be distinct and separate from the color present in the reagent. It is recommended that users trial a negative result using a blank swab in order to assess the color effects of the reagent during testing.

The third Test Zone of the LTD screens for the presumed presence of Acids (sulfuric acid, hydrochloric acid, nitric acid) and Alkalis/Bases (hydrazine) at extreme pH levels, which would not ordinarily be associated with consumer products.

Test Target Chemical Group	Color Change for Positive Result	Color Development Time
Acids	Pink/Red	< 2 seconds
Bases	Blue/Purple	< 2 seconds

Test Result	Color Reaction	
Positive for Acids	Development of Pink/Red Color	
Positive for Alkalis/Bases	Development of Blue/Purple Color	
Negative for Acids/Bases	No Color Development	

Notes

Some cosmetic products containing alkaline ammonia or other peroxide compounds may cause False positive results for this test.



Troubleshooting

The SwabTek LTD test kits are designed to detect the presumed presence of liquids that are explosives or can be used in the manufacture of explosive or energetic materials. The results of the test are presumptive only, indicating to the best of the test's capability a presumption that the target compound is or is not likely to be present in a given sample. Presumptive tests should not be used to determine the legitimacy or legality of the presence of explosives.

As SwabTek's tests are a color change test that rely on the user to draw conclusions about the results, there are a number of factors to consider about the use of the test. The following can result in mistaken readings that are based on human or procedural error, rather than an error with the color chemistry:

- Improper/non-white lighting used in the test procedure
- Partial to full color blindness of the operator
- Highly colored/color-producing samples used in testing (wet or dry paints, dyes, etc.)
- Highly viscous or thick samples used in testing (candle wax, silicone oil, engineering grease, etc.)
- Testing conditions where the LTD card, LTD swab, or sample may have been compromised (heavy rain, smoke, extreme temperatures, etc.)

For LTD Test Stages that are known to produce either False Positive or potentially misleading results under particular circumstances, these samples and scenarios are detailed in the Notes sections for each of the Test Zones detailed in this user manual. It is important that users be cognizant of these known False positives and misleading results and use their best judgment in applying this knowledge in the context of their testing.

If the user is ever unsure about the procedure or result of a test, the test should be re-conducted. If the user is uncertain about an element of conducting or analyzing the test, and cannot find answers in the reference materials, they should contact a member of SwabTek's team with relevant support (photographs, descriptions, test information) if applicable.



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