# BTNX 

| apid |
| :--- |
| eSponse |
| Fentanyl Test Strip |
| (Liquid / Powder) |
| REF  <br> FYL-18S7-100, FYL-18S7-10 <br> For Forensic Use Only <br> Not an IVD $\quad$ Product Inse |



The Rapid Response"' Fentanyl Test Strip (Liquid / Powder) is a rapid visual immunoassay for the equalitative, , erestumptiptive detectection of entertanyl in suspicious

substances at the cut-off concentration listed below: \begin{tabular}{l}
substances at the cut-off concentration listed below: <br>

$\qquad$| Parameter | Calibrator | Cut-off(ng/mL) |
| :--- | :--- | :--- |
| FYL (Fentanyl) | Fentanyl | 200 | <br>

\hline
\end{tabular}

| Materials Provided
Materials Required but not Provided

- Product insert
- Timer

Precautions
|
The test device is NOT intended to determine the purity, composition, A positive or negative test result is NOT an indication that the substance being examined is safe to use. Many factors come into play when examining the samples, including but not limited to mixture of
multiple substances, solubility, and pH of the sample. BTNX Inc. does not encourage the use, supply, or production of illegal $\frac{\text { drugs or controlled substances in any way. The device is intended for }}{\text { harm reduction purposes. Follow the advice of your local harm }}$ $\frac{\text { harm reduction purposes. }}{\text { reduction or public heath agency. }}$
There are no direct therapeutic or diagnostic claims being made for this
product. These tests are not involved in diagnosing treating mitigatis product. These tests are not involved in diagnosing, treating, mitigating,
or preventing a disease, disorder, or symptom in human beings, nor do or preventing a disease, disorder, or symptom in human beings, nor do
they restore, modify or correct a body structure, function of the human they rest
body
Do not us
Do not use after expiration date indicated on the package. Do not use
the test if its foil pouch is damaged. The testitits foil pouch is damaged. Do not reuse tests. origin and/or sanitary state of the animals does not totaly guarantee the absence of transmissibe pathogenic agents. It is therefore
recommended that these products be treated as potentially infectious, recommended that these products be treated as potentially infectious,
and handled observing the usual safety precautions (do not ingest or inhale).
Read the
Do not eat , dre procedure carefully prior to performing any tests. handled. It is rink recommended to to wear where the samples and kits are
hective clothing such as disposable
substances.
Hustances.
Tmidity and temperature can adversely affect results.
discarded in accordance with loca The Rapid Response" Fentanyl Test Strip (Liquid / Powder) has been
tested for extreme shipping conditions and its performance tested for extreme shipping conditions and its performance has not
been impacted. The kit should be stored at $36-86^{\circ} \mathrm{F}\left(2-30^{\circ} \mathrm{C}\right)$ until the expiry date printed on the sealed pouch.
| Test Procedure Bring tests, samples, buffer and/or controls to room temperature $59-86^{\circ} \mathrm{F}$
$115-30^{\circ} \mathrm{C}$ ) Bring tests, samples
(15-30 $0^{\circ}$ ) before use

1. Mix your drug sample thoroughly before testing. Dilute the drug to be tested in water. One scoop ( $5-10 \mathrm{mg}$ ) of drug sample should be diluted in
5 mL of water. Refer to the advice of your local health or harm reduction authority on how much water and drug sample you should use.
Remove the test strip from its sealed pouch and use it as soon as possible.
For best results, the test should be performed within one hour.
Hold the strip by the end, where the product name (FYL) is printed avoid conta by the end, where the product name (FYL) is printed. To of the strip).
Holding the strip vertically, dip the test strip in the liquid for at least 10-15
seconds. Immerse the strip where the wavy lines are, but not above the solid (maximum) ine on the test strip.
2. Remove the strip from the sample and place it a no
3. surface. Start the timer and wait for the colored line(s) to appear.
4. A negative result can be interpreted as soon as both the test $(T)$ and control (C) lines appear. A resur can be interpreted as positive when 60 seconds have passed since the control line has appeared
that drug is present. Do not read results after 10 minutes.
Res

Positive - Fentanyl Detected
Oniy one colored line appears in the control region (C). No apparent colored lin
appears in the test region (T).

Negative - Fentanyl Could Not be Detected
Two colored lines appear on the membrane. One line appears in the control regio
Wo colored lines appear on the membrane. One ine appears in the control regio
C) and
negative.

nvalid
Control line fails to appear. Results from any test which has not produced a contro ine at the specified read time must be discarded. Please review the procedur $m$ persists, discontinue using the immediately and contact your local distributor.

concentration of analytes present in the sample. Therefore, any shade
of color in the test region should be considered negative. Note that thi is a qualitative test only and cannot determine the concentration analytes in the sample.
2. Insufficient sample volume, incorrect operating procedure or expired Quality Control

## | Internal Procedural Controls

Internal procedural controls are included in the test. A colored line appearing in Internal procedural controls are included in the test. A colored line appearing in
the control region (C) is considered an internal positive procecural control,
confirming sufficient sample volume and correct procedural technique. | Limitations of the Test

1. There is a possibility that technical or procedural errors as well as other substances and factors mav interfere with the Rapid Response A positive result indicates the presence of fentanyl only and does not indicate quantity.
2. A negative result does not at any time rule out the presence of fentanyl
 forensic use and should be only used for the qualitative detection of
3. This assay provides a preliminary analytical test result only. A more analytical result. Gas chromatography/mass spectrometry (GC/MS) has been established as the preferred connirmatory method by the National Institute on Drug Abuse (NIDA). Clinical consideration and professional
judgment should be applied to any test result, particularly when judgment should be applied to any
preliminary positive results are indicated.
4. A negative result may not necessarily indicate drug.free sample. Negative results can
of the test.
5. This test may not distinguish between fentanyl and other ilicict substance The test does not distinguish between dififerent fentanyl a nalogouses and
certain medications. Other compounds found in illicit yrugs may display cross reactivity with the test device. Cross reactivity with other emerging fentanyl analogs, such as U-47700, cyclopentyl fentanyl, is yet to be
determined.

## | Accuracy

Accuracy
Accuracy of the Fentanyl Test Strip was established by running samples against



The sensitivity of the Rapid Response"" Fentanyl Test Strip (Liquid / Powder) was
determined by determined by tested GC/MS confirmed controlsts to the concentration at
negative, $-75 \%$, $50 \%$ cutoff, $-25 \%$ cutoff, cutoff, $+25 \%$ cutoff, $+50 \%$ cutof times of cutoff. The results are summarized below: cutoff, $+50 \%$ cutoff and 3

| Drug Conc. (Cut-off Range) | n | FYL |  |
| :---: | :---: | :---: | :---: |
| 0\% Cut-off | 50 | 50 | 0 |
| 50\% Cut-off | 50 | 50 | 0 |
| -25\% Cut-off | 50 | 50 | 0 |
| Cut-off | 50 | 22 | 28 |
| +25\% Cut-off | 50 | 0 | 50 |
| +50\% Cut-off | 50 | $\bigcirc$ | 50 50 |

| Specificity
Specificity
he following table lists compounds that are positively detected in fluid by the
Rapid Response" Fentany/ Test Strip (Liquidid Powder) at 5 minutes. Rapid Response"' Fentanyl Test Strip (Liquit/ Powder) at 5 minutes.

| Carfentanil | $5.000 \mathrm{ng} / \mathrm{ml}$ | vale | $700 \mathrm{ng} / \mathrm{ml}$ |
| :---: | :---: | :---: | :---: |
| Butyryl Fentany | $700 \mathrm{ng} / \mathrm{ml}$ | Octentanil | $250 \mathrm{ng} / \mathrm{ml}$ |
| p.FFuoro Fentany | $200 \mathrm{ng} / \mathrm{ml}$ | 3-Methyl Fentany1 | $500 \mathrm{ng} / \mathrm{ml}$ |
| Acety Fentanyl | $150 \mathrm{ng} / \mathrm{ml}$ | Remitentani | 70,000 ng/ml |
| Fentany | $200 \mathrm{ng} / \mathrm{m}$ | Sufenta | 0,000 ng/ml | Acety| Fentanyl

Funtanyl
Furany Fentanyl
The test device is designed to screen for the presence of Fentanyl in suspicious solids or iliquids. Other compounds found in illicit drugs may display
cross reactivity with the test device

A study was conducted to determine the cross-reactivity of the test with
compounds in either drug-free buffer or Fentanyl positive buffer. The following compounds in either drug-free buffer or Fentanyl positive buffer. The following
compounds show no cross-reactivity when tested with the Rapid Response"' compounds show no cross-reactivity when tested with the Rapid Response
Fentanyl Test Strips (Powder/Liquid) at a concentration of $100 \mathrm{\mu g} / \mathrm{m}$.


LOT Lot Number
( $\begin{aligned} & \text { BTNX Inc. } \\ & 722 \text { Roseb }\end{aligned}$
BTNX Inc.
722 Roseb. Pickering, ON LIW 4B2 Technical support: 1-888-339-9964

