

# What's in Toronto's Drug Supply?

Results from Samples Checked by Toronto's Drug Checking Service October 10, 2019 – March 31, 2020



April 14, 2020

## Contents

Overview of Toronto's Drug Checking Service	3
Drug Dictionary	4
Results from Samples Checked: October 10, 2019 – March 31, 2020	5
Key Findings	6
Checked Samples by Sample Type	7
Checked Samples by Expected Drug	8
Opioids	9
Expected Fentanyl Samples	9
Expected Heroin Samples	11
Expected Carfentanil Samples	13
Stimulants	14
Expected Cocaine Samples	14
Expected Methamphetamine Samples	15
Expected Crack Samples	16
Expected Amphetamine Samples	17
Psychedelics	18
Expected MDMA Samples	18
Expected 2C Class Samples	19
Expected Ketamine Samples	20
Expected LSD Samples	21
Depressants	22
Expected Benzodiazepine Samples	22
Limitations of Toronto's Drug Checking Service	23
Acknowledgements	24
Contact	25

## **Overview of Toronto's Drug Checking Service**

People who use drugs in Toronto have long advocated for access to drug checking in an effort to reduce the harms associated with using drugs from the unregulated supply. In 2017, Health Canada

responded, <u>funding multiple drug checking services</u> across the country with the primary goal of preventing overdose. This included funding a drug checking pilot in Toronto.

Toronto's drug checking service launched in October 2019 and offers free and anonymous drug checking using <u>mass</u> <u>spectrometry technologies</u> (gas- and liquid-chromatography). These lab-based technologies offer detailed information about which drugs are found in each sample, along with some information about how much of each drug is present.

Coordinated by the <u>Centre on Drug Policy Evaluation</u>, this drug checking service provides people who use drugs with timely

#### What's the Unregulated Drug Supply?

The unregulated drug supply includes illegal drugs, as well as legal drugs diverted from regulated markets for sale through criminal channels.

and comprehensive information on the composition of their drugs, helping them to make more informed decisions. This drug checking service also helps to uncover the contents of Toronto's unregulated drug supply.

Samples are collected at three frontline harm reduction agencies in Toronto, including <u>Parkdale Queen</u> <u>West Community Health Centre</u> (Queen West site), <u>South Riverdale Community Health Centre</u>, and <u>The</u> <u>Works at Toronto Public Health</u>, where supervised consumption services are offered. However, this drug checking service is available to everyone and is not limited to clients of supervised consumption services.

Accepted samples include substances (a small amount of powder, a crushed bit of a pill, blotter, or a small amount of liquid) and post-use paraphernalia (a used cooker or filter, or leftover liquid from a syringe).

Samples are transported to a nearby laboratory at the <u>Centre for Addiction and Mental Health</u> or <u>St.</u> <u>Michael's Hospital</u> where they are analyzed. Results are available within the next business day or two and are communicated to clients by harm reduction staff in person or by phone. Along with these results, clients receive tailored harm reduction supports, guidance, and referral to services (e.g., supervised consumption, naloxone training, primary health care, etc.).

Every two weeks, results from samples checked are combined and disseminated with the goal of communicating information about the composition of Toronto's unregulated drug supply. To receive these reports directly, sign up by emailing <u>drugchecking@cdpe.org</u>.

This drug checking service is being scientifically evaluated to understand its impacts on the health and well-being of people who use drugs in Toronto. To learn more about the methods and aims of the evaluation, read the <u>study protocol and rationale</u>.

## **Drug Dictionary**

Drug name	Description
2C class drugs	A family of psychedelic drugs
3-FA	An active amphetamine-related drug
6-MAM	An active heroin-related drug
Acetyl fentanyl	An active fentanyl-related drug
AEME	An inactive cocaine-related drug
Alprazolam (Xanax)	A medication used to treat anxiety
Amantadine	A medication used to treat influenza A infections and Parkinson's disease
AMB-FUBINACA	An "ultrapotent" synthetic cannabinoid
Benzoylecgonine	An inactive cocaine-related drug
Carfentanil	An "ultrapotent" fentanyl-related drug
Citalopram	A medication used to treat depression
Despropionyl fentanyl (4-ANPP)	An inactive fentanyl-related drug, which is an impurity found in fentanyl preparations
DOI	A potent psychedelic drug
Doxepin	A medication used to treat depression and anxiety
Etizolam	An active benzodiazepine-related drug
Fentanyl (hydroxy)	An inactive fentanyl-related drug
Flualprazolam	An active benzodiazepine-related drug
Flubromazolam	An active benzodiazepine-related drug
Furanyl UF-17	An opioid-related drug with unknown potency and effects
Levamisole	A medication used to treat worm infections in animals, pulled from the Canadian market in the early 2000s
Methylecgonine	An inactive cocaine-related drug
Norfentanyl	An inactive fentanyl-related drug
Phenacetin	A pain-relieving, fever-reducing medication, pulled from the Canadian market in the 1970s for its association with kidney and bladder cancers
Tropacocaine	An inactive cocaine-related drug



# **Results from Samples Checked**

October 10, 2019 - March 31, 2020

## **Key Findings**

Between October 10, 2019, when Toronto's drug checking service formally launched, and March 31, 2020:

- 543 samples were checked, including substances (63%) and post-use paraphernalia (37%).
- On average, 25 samples were checked each week.
- 46% of the samples checked were expected to be fentanyl.
  - Fentanyl was found in 93% of the samples that were expected to be fentanyl.
  - When other drugs were found with fentanyl, caffeine (87%) was most common.
- 43% of expected heroin samples contained no heroin.
- 96% of expected cocaine samples contained cocaine and other drugs, although other drugs most commonly found were cocaine-related.
- Samples expected to be opioids were more contaminated than other expected drug types meaning there were a lot of other drugs found in each expected opioid sample. For example, 6% of expected fentanyl samples contained only fentanyl, while:
  - 86% of expected methamphetamine samples contained only methamphetamine.
  - 44% of expected MDMA samples contained only MDMA.
  - 77% of expected ketamine samples contained only ketamine.
- Unexpected noteworthy drugs were often found in Toronto's drug supply. For example:
  - Benzodiazepines and benzodiazepine-related drugs, like etizolam, flualprazolam, flubromazolam, and alprazolam, were unexpectedly found in 36% of expected fentanyl samples, which led to the <u>issuance</u> of an alert by Toronto Public Health given their presence and associated complications in overdose events.
  - AMB-FUBINACA was unexpectedly found in 3% of expected fentanyl samples.
  - Carfentanil was unexpectedly found in 1% of expected fentanyl samples.
  - Fentanyl was unexpectedly found in 43% of expected heroin samples.

### What are Noteworthy Drugs?

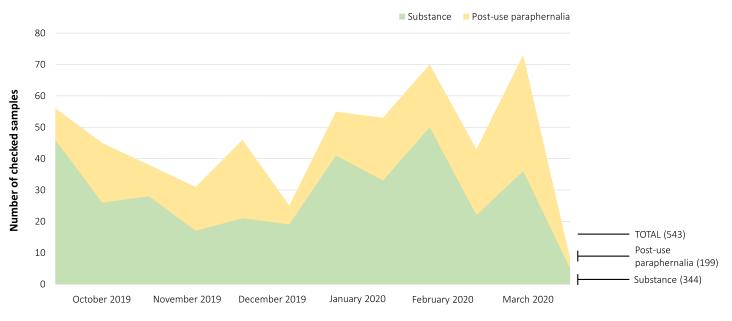
"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples.

• Levamisole was unexpectedly found in 14% of expected cocaine samples.

## **Checked Samples by Sample Type**

Two types of samples are accepted by this drug checking service: substances (a small amount of powder, a crushed bit of a pill, blotter, or a small amount of liquid) and post-use paraphernalia (a used cooker or filter, or leftover liquid from a syringe).

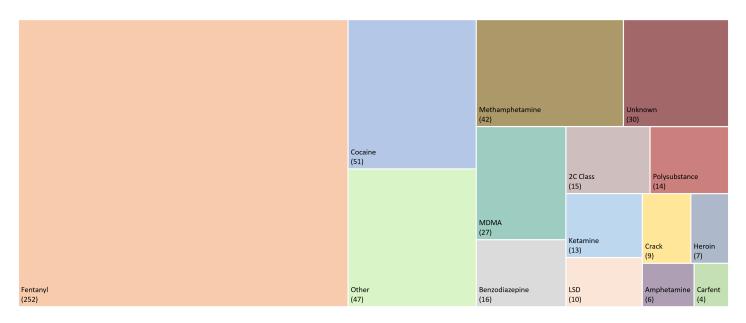
Between October 10, 2019, and March 31, 2020, 543 samples were checked: 63% (344) were substances and 37% (199) were post-use paraphernalia.



**Period of time** 

## **Checked Samples by Expected Drug**

When a client submits a sample to be checked, they indicate which drug they expect that sample to contain. The following shows which drugs were expected for the 543 samples checked between October 10, 2019, and March 31, 2020.



**Other** expected drugs included: 3 MEO-PCE, 4-AcO-DET, 4-AcO-DMT, 4-AcO-MET, 4-FA, 4-HO-MET, 4-HO-MIPT, 5-APB, 5-MeO-DIPT, 5-MeO-DMT, 5-MeO-MIPT, ADMK4, AMT, caffeine, DMT, freebase DMT, fumarate DOM, down, DPT, etaqualone, GHB, HDIK4, MDA, mescaline, methandrostenolone, MIPLA, modafinil, O-desmethyltramadol, O-PCE, Percocet, testosterone enanthate, tsunami, Viagra, and Z drug.

**Unknown** includes samples that did not have a stated expected drug.

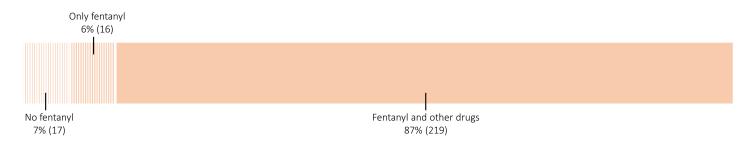
**Polysubstance** includes samples that had two or more expected drugs (e.g., fentanyl and methamphetamine).

## Opioids

## **Expected Fentanyl Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 46% (252) were expected to be fentanyl (36% were substances and 64% were post-use paraphernalia).

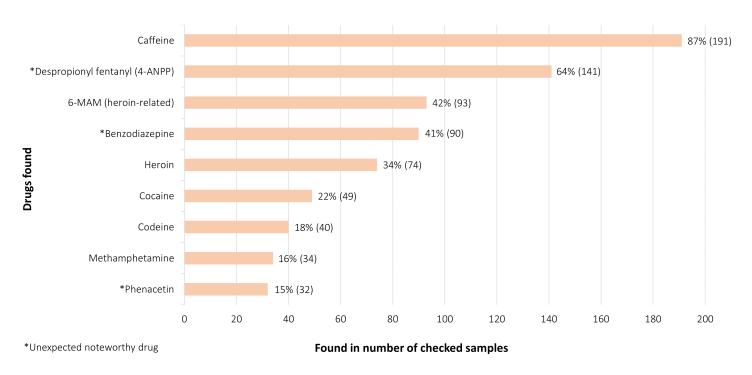
#### Presence of fentanyl in expected fentanyl samples (252)



In samples expected to be fentanyl that **contained no fentanyl**, the most commonly found drugs included: caffeine, methamphetamine, cocaine, hydromorphone, and naproxen.

#### Expected fentanyl samples containing fentanyl and other drugs (219)

Of the 252 samples expected to be fentanyl, 87% (219) **contained fentanyl and other drugs**. The following shows which other drugs were found in expected fentanyl samples that contained fentanyl and other drugs and in what number of samples.



Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected fentanyl samples (252)

"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 252 samples expected to be fentanyl, unexpected noteworthy drugs found included:

- 56% (141) of expected fentanyl samples contained despropionyl fentanyl (4-ANPP)
- 36% (91) of expected fentanyl samples contained one or more benzodiazepine or benzodiazepine-related drug:
  - 33% (83) of expected fentanyl samples contained etizolam
  - 15% (37) of expected fentanyl samples contained flualprazolam
  - 1% (3) of expected fentanyl samples contained flubromazolam
  - 1% (2) of expected fentanyl samples contained alprazolam
- 13% (33) of expected fentanyl samples contained phenacetin
- 7% (17) of expected fentanyl samples contained acetyl fentanyl
- 6% (15) of expected fentanyl samples contained fentanyl (hydroxy)
- 5% (13) of expected fentanyl samples contained furanyl UF-17
- 3% (8) of expected fentanyl samples contained norfentanyl
- 3% (7) of expected fentanyl samples contained AMB-FUBINACA
- 1% (2) of expected fentanyl samples contained carfentanil

### **Expected Heroin Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 1% (7) were expected to be heroin (57% were substances and 43% were post-use paraphernalia).

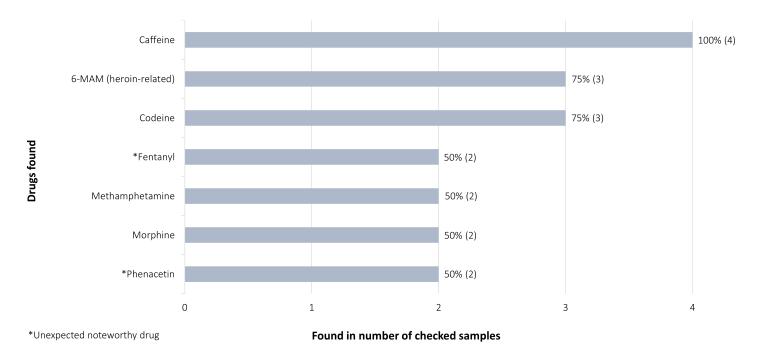
#### Presence of heroin in expected heroin samples (7)



In samples expected to be heroin that **contained no heroin**, the most commonly found drugs included: 6-MAM (heroin-related), caffeine, codeine, morphine, fentanyl, and phenacetin.

#### Expected heroin samples containing heroin and other drugs (4)

Of the 7 samples expected to be heroin, 57% (4) **contained heroin and other drugs**. The following shows which other drugs were found in expected heroin samples that contained heroin and other drugs and in what number of samples.



Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected heroin samples (7)

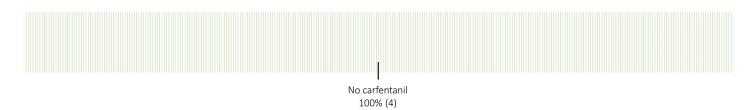
"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 7 samples expected to be heroin, unexpected noteworthy drugs found included:

- 43% (3) of expected heroin samples contained fentanyl
- 43% (3) of expected heroin samples contained phenacetin
- 29% (2) of expected heroin samples contained despropionyl fentanyl (4-ANPP)

### **Expected Carfentanil Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 1% (4) were expected to be carfentanil (75% were substances and 25% were post-use paraphernalia).

#### Presence of carfentanil in expected carfentanil samples (4)



In samples expected to be carfentanil that **contained no carfentanil**, the most commonly found drugs included: fentanyl, despropionyl fentanyl (4-ANPP), and furanyl UF-17.

#### Unexpected noteworthy drugs in expected carfentanil samples (4)

"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 4 samples expected to be carfentanil, unexpected noteworthy drugs found included:

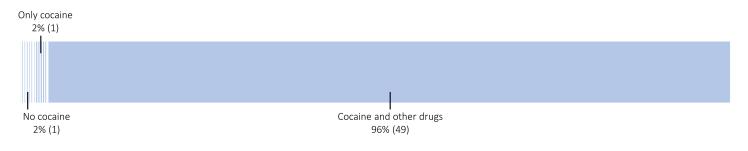
- 75% (3) of expected carfentanil samples contained fentanyl
- 25% (1) of expected carfentanil samples contained despropionyl fentanyl (4-ANPP)
- 25% (1) of expected carfentanil samples contained furanyl UF-17

## Stimulants

## **Expected Cocaine Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 9% (51) were expected to be cocaine (96% were substances and 4% were post-use paraphernalia).

#### Presence of cocaine in expected cocaine samples (51)



In samples expected to be cocaine that **contained no cocaine**, the most commonly found drugs included: acetaminophen.

#### Expected cocaine samples containing cocaine and other drugs (49)

Of the 51 samples expected to be cocaine, 96% (49) **contained cocaine and other drugs**. Other drugs found included:

- 90% (44) of expected cocaine samples contained benzoylecgonine (cocaine-related)
- 16% (8) of expected cocaine samples contained AEME (cocaine-related)
- 16% (8) of expected cocaine samples contained phenacetin
- 14% (7) of expected cocaine samples contained levamisole

Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected cocaine samples (51)

"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 51 samples expected to be cocaine, unexpected noteworthy drugs found included:

- 16% (8) of expected cocaine samples contained phenacetin
- 14% (7) of expected cocaine samples contained levamisole

### **Expected Methamphetamine Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 8% (42) were expected to be methamphetamine (86% were substances and 14% were post-use paraphernalia).

#### No methamphetamine 7% (3) 0nly methamphetamine 86% (36) 0nly methamphetamine and other drugs 7% (3)

#### Presence of methamphetamine in expected methamphetamine samples (42)

In samples expected to be methamphetamine that **contained no methamphetamine**, the most commonly found drugs included: cocaine and AEME (cocaine-related).

#### Expected methamphetamine samples containing methamphetamine and other drugs (3)

Of the 42 samples expected to be methamphetamine, 7% (3) **contained methamphetamine and other drugs**. Other drugs found included:

- 67% (2) of expected methamphetamine samples contained cocaine
- 67% (2) of expected methamphetamine samples contained benzoylecgonine (cocaine-related)

Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected methamphetamine samples (42)

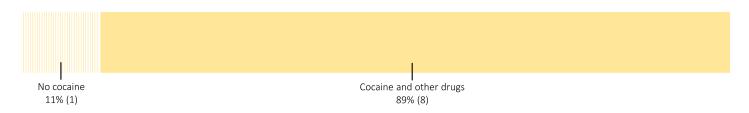
"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 42 samples expected to be methamphetamine, unexpected noteworthy drugs found included:

- 5% (2) of expected methamphetamine samples contained fentanyl
- 2% (1) of expected methamphetamine samples contained despropionyl fentanyl (4-ANPP)
- 2% (1) of expected methamphetamine samples contained phenacetin

### **Expected Crack Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 2% (9) were expected to be crack (56% were substances and 44% were post-use paraphernalia).

#### Presence of cocaine in expected crack samples (9)



In samples expected to be crack that **contained no cocaine**, the most commonly found drugs included: oxycodone.

#### Expected crack samples containing cocaine and other drugs (8)

Of the 9 samples expected to be crack, 89% (8) **contained cocaine and other drugs**. Other drugs found included:

- 50% (4) of expected crack samples contained methylecgonine (cocaine-related)
- 38% (3) of expected crack samples contained benzoylecgonine (cocaine-related)
- 38% (3) of expected crack samples contained tropacocaine (cocaine-related)
- 25% (2) of expected crack samples contained AEME (cocaine-related)
- 25% (2) of expected crack samples contained phenacetin

Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected crack samples (9)

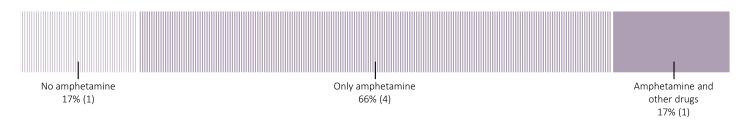
"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 9 samples expected to be crack, unexpected noteworthy drugs found included:

- 22% (2) of expected crack samples contained phenacetin
- 11% (1) of expected crack samples contained fentanyl

### **Expected Amphetamine Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 1% (6) were expected to be amphetamine (all were substances).

#### Presence of amphetamine in expected amphetamine samples (6)



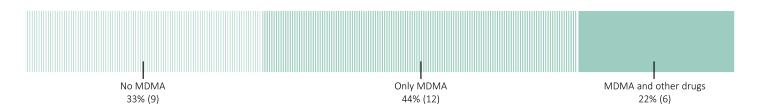
In samples expected to be amphetamine that **contained no amphetamine** or **contained amphetamine and other drugs**, the most commonly found drugs included: methamphetamine.

## **Psychedelics**

### **Expected MDMA Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 5% (27) were expected to be MDMA (all were substances).

#### Presence of MDMA in expected MDMA samples (27)



In samples expected to be MDMA that **contained no MDMA**, the most commonly found drugs included: MDA and caffeine.

#### Expected MDMA samples containing MDMA and other drugs (6)

Of the 27 samples expected to be MDMA, 22% (6) **contained MDMA and other drugs**. Other drugs found included:

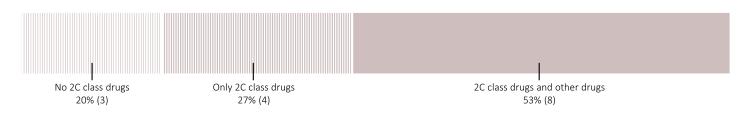
- 67% (4) of expected MDMA samples contained MDA
- 33% (2) of expected MDMA samples contained acetaminophen

### **Expected 2C Class Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 3% (15) were expected to be a 2C class drug (all were substances).

Expected 2C class drugs included 2C-B, 2C-C, 2C-D, 2C-E, 2C-I, 2C-P, and 2C-T-2.

#### Presence of 2C class drugs in expected 2C class samples (15)



In samples expected to be a 2C class drug that **contained no 2C class drug**, the most commonly found drugs included: ketamine and caffeine.

#### Expected 2C class samples containing 2C class drugs and other drugs (8)

Of the 15 samples expected to be a 2C class drug, 53% (8) **contained a 2C class drug and other drugs**. Other drugs found included:

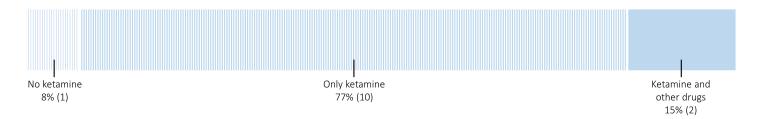
- 50% (4) of expected 2C class drug samples contained an unknown 2C class-related drug
- 38% (3) of expected 2C class drug samples contained citalopram
- 25% (2) of expected 2C class drug samples contained ketamine

Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

### **Expected Ketamine Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 2% (13) were expected to be ketamine (all were substances).

#### Presence of ketamine in expected ketamine samples (13)



In samples expected to be ketamine that **contained no ketamine**, the most commonly found drugs included: MDMA.

#### Expected ketamine samples containing ketamine and other drugs (2)

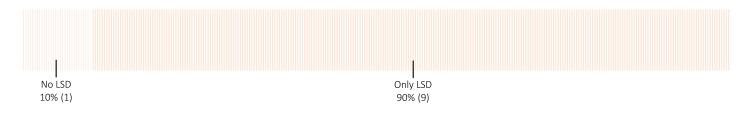
Of the 13 samples expected to be ketamine, 15% (2) **contained ketamine and other drugs**. Other drugs found included:

- 50% (1) of expected ketamine samples contained 3-FA
- 50% (1) of expected ketamine samples contained acetaminophen

### **Expected LSD Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 2% (10) were expected to be LSD (all were substances).

#### Presence of LSD in expected LSD samples (10)



In samples expected to be LSD that **contained no LSD**, the most commonly found drugs included: DOI.

## Depressants

## **Expected Benzodiazepine Samples**

Of the 543 samples checked between October 10, 2019, and March 31, 2020, 3% (16) were expected to be a benzodiazepine or a benzodiazepine-related drug (all were substances).

Expected benzodiazepine and benzodiazepine-related drugs included alprazolam, etizolam, flualprazolam, and flubromazolam.

# Presence of benzodiazepines and benzodiazepine-related drugs in expected benzodiazepine samples (16)



# Expected benzodiazepine samples containing a benzodiazepine or benzodiazepine-related drug and other drugs (9)

Of the 16 samples expected to be a benzodiazepine or benzodiazepine-related drug, 56% (9) **contained a benzodiazepine or benzodiazepine-related drug**. Other drugs found included:

- 44% (4) of expected benzodiazepine samples contained caffeine
- 33% (3) of expected benzodiazepine samples contained amantadine
- 33% (3) of expected benzodiazepine samples contained doxepin
- 22% (2) of expected benzodiazepine samples contained hydromorphone

Note: More than one drug may be found in each sample so percentages may add up to more than 100%.

#### Unexpected noteworthy drugs in expected benzodiazepine samples (16)

"Noteworthy drugs" are drugs that are highly potent, linked to overdose or other adverse effects, or may not be desired by some clients. Noteworthy drugs are called out when they are unexpectedly found in checked samples. Of the 16 samples expected to be a benzodiazepine, unexpected noteworthy drugs found included:

• 6% (1) of expected benzodiazepine samples contained fentanyl

## Limitations of Toronto's Drug Checking Service

It is important to understand the limitations of this drug checking service:

- 1. Checking a sample cannot guarantee that a drug is safe to use.
- 2. The results from a sample may not represent the rest of the drugs that sample was taken from. This is known as the Chocolate Chip Cookie Effect.
- 3. There are technological limitations:
  - a. Some drugs may be missed.
  - b. Non-drug fillers are not reported. This could include non-drug fillers that may be dangerous, such as bacteria, metals, pesticides, or inorganic salts. Other non-drug fillers may not be dangerous, such as sugar or laxatives.
- 4. Results for samples that are taken from post-use paraphernalia have other limitations:
  - Paraphernalia, like cookers, are often re-used. The mass spectrometry technologies used for this drug checking service (gas- and liquid-chromatography) are so sensitive that very trace amounts of drugs may be found. This means that when paraphernalia is re-used, drugs from past use may present in the results for the sample that is being checked.
  - b. Fatty acids are more commonly found in samples that are taken from post-use paraphernalia, most likely from oils on skin. These fatty acids can interfere with the mass spectrometry analysis. It may be difficult

### What's the Chocolate Chip Cookie Effect?

The results for a sample that is checked may not represent the rest of the drugs that sample was taken from. You can imagine your drugs as a chocolate chip cookie. If you check a piece of the cookie that is only dough, your results may not identify chocolate as present. Mixing a powder or scratching different parts of a pill when preparing a sample can increase the representativeness of your sample.

with the mass spectrometry analysis. It may be difficult to see past them to determine which drugs are present.

For these reasons, checking substances instead of post-use paraphernalia is preferred.

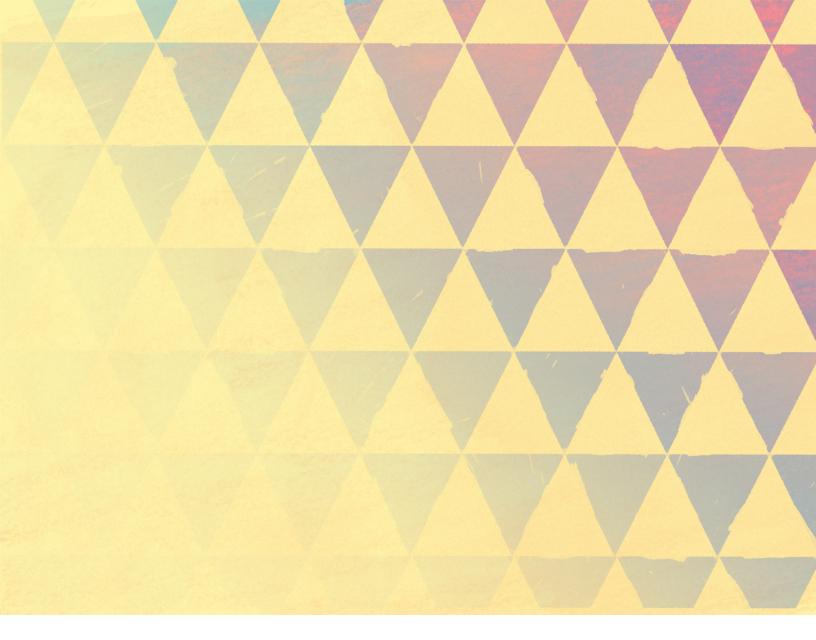
## Acknowledgements

Special thanks from the Centre on Drug Policy Evaluation to the Community Advisory Board, a group of ten people who use drugs in Toronto that meet monthly to consult on the design and execution of this drug checking service.

We also wish to thank our funders, partners, and collaborators for their ongoing commitment to Toronto's drug checking service:

- British Columbia Centre of Substance Use
- Centre for Addiction and Mental Health
- Health Canada's Drug Analysis Service
- Health Canada's Substance Use and Addictions Program
- Moss Park Consumption & Treatment Service
- Office of the Chief Coroner for Ontario
- Ontario Harm Reduction Network
- Ontario Poison Centre
- Parkdale Queen West Community Health Centre
- Public Health Ontario
- Sandy Hill Community Health Centre
- South Riverdale Community Health Centre
- St. Michael's Hospital
- St. Michael's Hospital Foundation
- Street Health
- The Works at Toronto Public Health
- Toronto Harm Reduction Alliance
- Toronto Paramedic Services
- Toronto Public Health
- Trip! Project

We wish to remember all the lives that have been lost – both in the ongoing overdose crisis and long before – due to a lack of regulation of the drugs described herein. Our work is dedicated to the community members who are no longer with us, including those who directly contributed to this project. May their deaths not have been in vain.



The <u>Centre on Drug Policy Evaluation</u> strives to improve community health and safety by conducting research and outreach on best practices in drug policy. We work collaboratively with governments, affected communities, and civil society to guide effective and evidence-based policy responses to substance use. The Centre on Drug Policy Evaluation is now housed within the Li Ka Shing Knowledge Institute at St. Michael's Hospital, a site of Unity Health Toronto, in Toronto, Canada.

Learn more about <u>Toronto's drug checking service</u>. Like us on Facebook, <u>facebook.com/centreondrugpolicyevaluation</u>, and follow us on Twitter, <u>@drugpolicyctr</u>.

Questions or comments? We'd love to hear from you. You can reach us at drugchecking@cdpe.org.

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