

Results from samples checked by Toronto's drug checking service

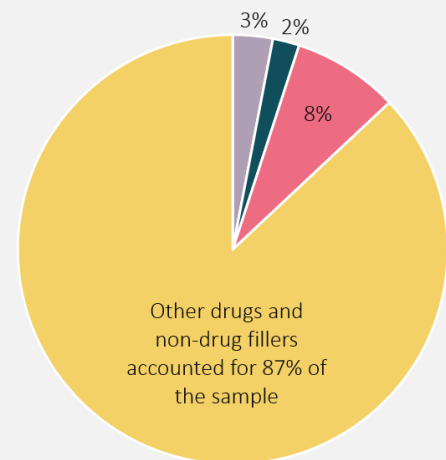
May 21 – June 3, 2022

Key findings

- 101 samples were checked: 81% were substances¹ and 19% were used equipment²
- 64% of the samples checked were expected³ to be fentanyl, MDMA, or cocaine
- 23% of the expected³ fentanyl samples checked were known to be associated with an overdose: all contained fentanyl, several contained carfentanil, and most contained other central nervous system and respiratory depressants, like benzodiazepine-related drugs and/or xylazine
- 43% of the expected³ fentanyl samples checked contained at least one benzodiazepine-related drug
- 14% of the expected³ fentanyl samples checked contained carfentanil
- 11% of the expected³ fentanyl samples checked contained xylazine
- Nitazene opioids were not found in any of the samples checked (the last reporting period we didn't find any nitazene opioids was more than 13 months ago)

In an average fentanyl substance:

- Fentanyl accounted for 3% of the sample (n=19)
- Etizolam accounted for 2% of the sample (n=1)
- Caffeine accounted for 8% of the sample (n=15)



Toronto's drug checking service reports the amount of fentanyl, carfentanil, etizolam, caffeine, and cocaine found in expected opioid powder substances.⁵

Expected fentanyl substances

- 90% (18) of expected³ fentanyl substances checked⁴ **contained fentanyl and other drugs**, including:
 - 94% (17) contained caffeine
 - 39% (7) contained a benzodiazepine-related drug (!):
 - 17% (3) contained flualprazolam (!)
 - 11% (2) contained bromazolam (!)
 - 11% (2) contained etizolam (!)
 - 17% (3) contained despropionyl fentanyl (4-ANPP) (!)

- 11% (2) contained xylazine (!)
- 6% (1) contained fluorofentanyl (!)

Unexpected noteworthy drugs found in other expected substances

- 10% (6) of the remaining substances checked,⁴ meaning substances that weren't expected³ to be fentanyl, **contained an unexpected noteworthy drug**, including:
 - 30% (3) of **expected cocaine substances** contained levamisole (!)
 - 67% (2) of **expected crack cocaine substances** contained phenacetin (!)
 - 33% (1) of **expected crack cocaine substances** contained levamisole (!)
 - 100% (1) of **expected carfentanil substances** contained fentanyl (!)

Notes

1 | Substances: Two types of samples are accepted by Toronto's drug checking service: substances and used drug equipment. Substances could be a small amount of powder, crystals, or rocks, a crushed bit of a pill, blotter, or a small amount of liquid.

2 | Used equipment: Two types of samples are accepted by Toronto's drug checking service: substances and used drug equipment. Used equipment could be a used cooker or filter, or leftover liquid from a syringe.

3 | Expected (drug): When a sample is submitted to be checked, the drug that sample was bought or got as is recorded. We call it the "expected drug". Knowing the expected drug helps us tailor our harm reduction advice. It also helps us understand contamination to drugs rather than combinations of drugs (e.g., fentanyl was found in a cocaine sample rather than fentanyl and cocaine were found together).

4 | Reason for reporting only substance samples: While Toronto's drug checking service checks both substances and used equipment, drug equipment – like cookers – are often re-used. The mass spectrometry technologies used for this drug checking service are so sensitive that very trace amounts of drugs may be found. This means that when equipment is re-used, drugs from past use may present in the results for the sample that is being checked. This can interfere with up-to-date drug supply monitoring, so we've noted when we exclude used equipment from this report.

5 | Average amount of drugs found: Toronto's drug checking service can report the amount of fentanyl, cocaine, carfentanil, etizolam, and caffeine found as a proportion of the total sample submitted for expected opioid, cocaine, crack cocaine, and some other powder substance samples. Every other week, we include the average (median) amount of fentanyl, cocaine, carfentanil, etizolam, and caffeine found in expected fentanyl substances in our report. More information is available on [our website](#).

6 | Isotonitazene/protonitazene: Because isotonitazene and protonitazene have a very similar chemical structure, it is not currently possible for Toronto’s drug checking service to differentiate between the two. For this reason, we report the two drugs together.

(!) | Unexpected noteworthy drug: “Noteworthy drugs” are drugs that (i) are linked to overdose or other adverse effects, (ii) are highly potent or related to highly potent drugs, or (iii) may not be desired by some service users. Noteworthy drugs are flagged when they are unexpectedly found in checked samples.

Toronto's drug checking service is a public health service that aims to reduce the harms associated with substance use and, specifically, to prevent overdose by offering people who use drugs timely and detailed information on the contents of their drugs. Beyond educating individual service users, results for all samples are combined, analyzed, and publicly disseminated every other week to communicate drug market trends and inform care for people who use drugs, advocacy, policy, and research. [Sign up](#) to receive reports, alerts, and other information on Toronto’s unregulated drug supply.

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