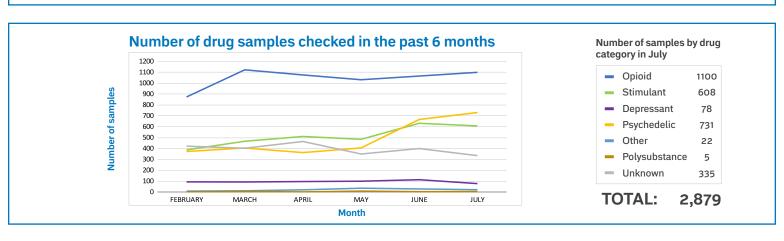
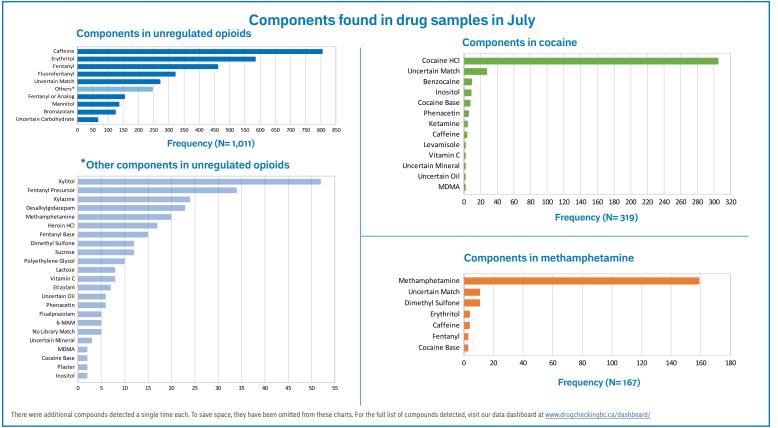
Key Findings

- In July, a total of 2,879 drug checks were performed at community drug checking sites offering FTIR services in BC (43 access points).
- The overall percentage of opioids testing positive for benzodiazepines by FTIR and test strip was 49.0% (539 of 1100 samples).
- Benzodiazepines continue to be increasingly detected by FTIR, indicating their presence in high concentrations. In July, bromazolam was detected in 126 opioid samples, followed by desalkylgidazepam (23 samples), and etizolam (7 samples).
- A shift from fentanyl to fluorofentanyl continues in the unregulated opioid supply. In July, 31.8% of unregulated opioid samples were found to contain fluorofentanyl (322 of 1011 samples), whereas 45.8% contained fentanyl (463 samples).
- Xylazine, a veterinary sedative, was found in 2.4% of unregulated opioids in July (24 of 1011 samples), occurring mostly in the Fraser Health region.
- The median fentanyl concentration of unregulated opioids has been increasing over the past year. In July, the median fentanyl concentration of opioids checked was 14.9%. See page 3 for more detailed results.







Number of samples tested with fentanyl present

1,100 Opioid samples



608 Stimulant samples 590 FENTANYL NEGATIVE (97%)



78 Depressant samples



731 Psychedelic samples

724 FENTANVI NEGATIVE (99%)



7 FENTANYL NOT TESTED (1%)

335 Unknown samples



22 Other samples

22 FENTANYL NEGATIVE (100%



5 Polysubstance

samples

4 FENTANYL POSITIVE (80%)



PUBLIC HEALTH NOTIFICATIONS

Date & Location	Expected Drug	Drugs Detected	Fentanyl Strip	Benzo Strip	Area Purchased	Alert Message
July 5, 2023 DTES Vancouver	Crack Cocaine	Crack Cocaine, Uncertain Match	Negative	Positive	DTES Vancouver	Brown resin chunks sold as crack cocaine in the DTES of Vancouver causing sedation and overdose tested positive for benzos.
July 6, 2023 Vancouver	Alprazolam	Microcrystalline Cellulose, Xylazine, Uncertain Oil	Negative	Negative	Vancouver	White tablet sold as alprazolam, also known as Xanax, in Vancouver tested positive for xylazine and negative for benzos.
July 7, 2023 Vernon	Down	Caffeine, Fentanyl, Bromazolam	Positive	Positive	Vernon	Mulitple light purple and pink subsatnces sold as Down tested positive for high concentrations of fentanyl and benzodiazepines in Vernon.
July 12, 2023 Penticton	Down	Fentanyl, Bromazolam	Positive	Positive	Penticton	Light green chunky powder sample sold as Down tested positive for high concentrations of fentanyl and benzodiazepines in Penticton.
July 14, 2023 DTES Vancouver	Oxycodone	Microcrystalline Cellulose, Fentanyl, Xylazine	Positive	Negative	DTES Vancouver	Light blue pressed pill with imprint "M" on one side and "30" on the other sold as oxycodone in the DTES of Vancouver tested positive for fentanyl and xylazine.
July 21, 2023 DTES Vancouver	Fentanyl	Caffeine, Erythritol, Fentanyl, Xylazine	Positive	Negative	DTES Vancouver	Dark blue chunks tested positive for fentanyl and xylazine, an animal analgesic. Sample tested in the DTES.
July 28, 2023 DTES Vancouver	Oxycodone	Acetaminophen, Oxycodone, Uncertain Carbohydrate	Negative	Positive	DTES Vancouver	White pressed tablets of varied thickness with imprint "TEC" on one side and a single score mark on the other sold as oxycodone in the DTES of Vancouver tested positive for oxycodone, acetaminophen, and benzos.
July 31, 2023 Penticton	Down	No library match (Nitazene-analogue)	Negative	Negative	Penticton	White chunky, flaky substance sold as Down tested positive for Nitazene (a strong synthetic opioid) in Penticton – Fentanyl was not present despite this being the expected substance.

Health authorities and community organizations issue further toxic drug alerts from sources other than drug checking. See their respective websites or social media accounts for more alerts.

Benzodiazepine-positivity

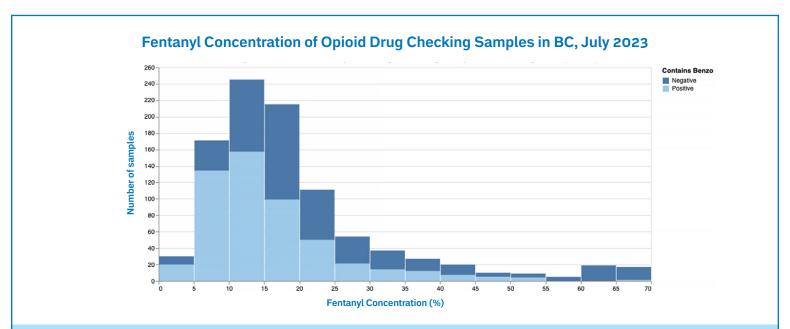
Percentage of opioids testing positive for benzodiazepines in the past 6 months



During the month of July, 49.0% of expected opioid samples tested positive for benzodiazepines in our partner sites around BC (539 samples of 1100 checked). Opioid samples are checked for benzodiazepine-positivity using BTNX test strips and the FTIR spectrometer. The results presented here are derived from both of these technologies and are presumptive until confirmed by a laboratory.

Fentanyl Quantification

The charts below summarize fentanyl concentrations of fentanyl-positive opioid samples brought for drug checking in British Columbia. Fentanyl concentrations were determined using FTIR and a calibrated fentanyl quantification model. Technicians at point-of-care may provide an estimated fentanyl quantification, generally an approximate range of fentanyl percentage in a mixture, but these results were calculated separately (post hoc) using the model for the purpose of this report.

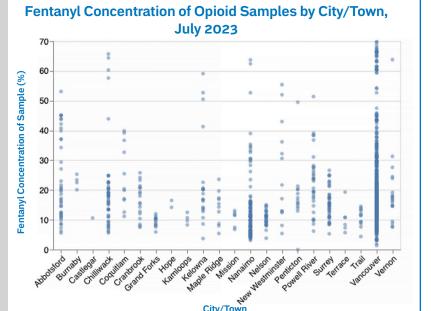


While most of fentanyl-positive opioids checked have a concentration of fentanyl between 10% and 20%, there remain many samples above 20% fentanyl-by-weight, and concentrations can approach 75% of the mixture. The median fentanyl concentration of all samples increased from 14.9% in June to 15.8% in July. When purchasing fentanyl from an unregulated drug supply, it is often impossible to know what the fentanyl concentration of the drugs is. Drug checking can help, but point-of-care quantification results are provided in a range since it is not possible to be precise with the available technologies. For example, a technician might say, "This sample contains caffeine, mannitol, and between 5% and 10% fentanyl."

Drug supplies vary by location in the province. While samples from smaller communities appear to be more consistent, it is important to remember that this is a small number of drugs checked in each city or town. It is also important to note that these locations include only those participating in the BCCSU Drug Checking Project that provide data from FTIR spectroscopy. These numbers may not represent the broader supply or the supply in other settings.

It is very important to remember that the results presented here are fentanyl, not fentanyl analogues like fluorofentanyl or carfentanil. While fluorofentanyl is reported to have similar potency to fentanyl, carfentanil is a very potent opioid that is often present below the detection limit of the spectrometer, and is therefore missed by point-of-care drug checking technologies. Your drug checking technician can explain the limitations in detail when you get your drugs checked, but always take additional harm reduction precautions, like using at an OPS if available, because potent opioids may be presented and go undetected.

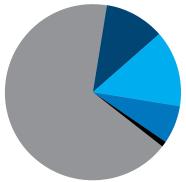
If you have any questions about the results, please email us at drugchecking@bccsu.ubc.ca.





Total #: 2,879

1,944: Vancouver Coastal Health region (67%)



318: Fraser Health region (11%)

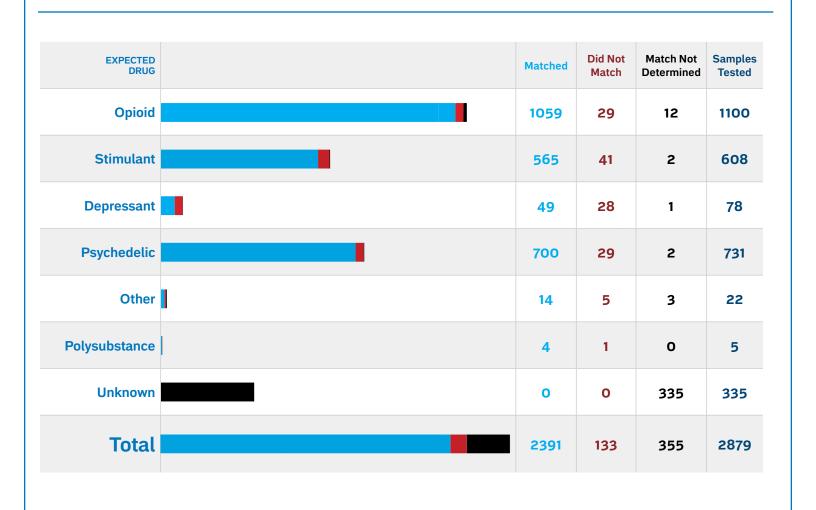
401: Interior Health region (14%)

194: Vancouver Island Health Region (7%)

22: Northern Health region (1%)

Number of samples that matched expectation

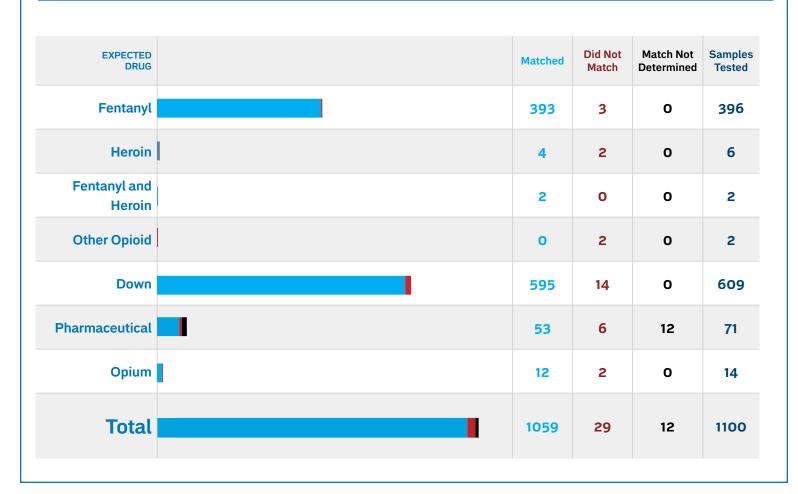
using FTIR/test strip drug checking



Please note that the presence of the expected substance does not imply purity, as samples frequently contain adulterating cutting agents

Number of opioid samples that matched expectation

using FTIR/test strip drug checking



Please note that the presence of the expected substance does not imply purity, as samples frequently contain adulterating cutting agents. 'Down' can refer to any opioid drug present in any amount.

Data represented here are collected from our partner sites across the province. Drug samples are tested using the Fourier Transform Infrared (FTIR) spectrometer in combination with fentanyl test strips and benzodiazapine test strips.

There is 5% fentanyl detection limit on the FTIR spectrometer (McCrae, 2019), and a drug check on any given sample consists of both the FTIR and BTNX fentanyl immunoassay test strip testing done in combination. When applicable, BTNX benzodiazepine immunoassay test strips are also used.

BCCSU gratefully acknowledges the contributions of the following partners:



















































