



Urine Drug Analysis

Test No. 23-5671 Summary Report

Each sample set contained urine samples from three individual cases with unique scenarios. Participants were requested to analyze the urine samples and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used. Data were returned from 137 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample set consisted of three urine samples from cases with unique scenarios. Participants were requested to analyze the urine samples using their existing protocols and report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and the methods used.

SAMPLE PREPARATION: The urine used in this test was from the same lot, which tested negative for a variety of common drugs and controlled substances. A stock solution of each chosen drug was used to spike each item. Items were prepared at separate times with different glassware.

ITEMS 1, 2, and 3 (PREPARATION): Sample preparation consisted of adding a predetermined amount of drug stock solution to a beaker containing human urine, where the equivalent of 2% w/v sodium fluoride was added and then stirred. A 50mL aliquot of the mixture was then transferred into each of the pre-labeled specimen bottles. All bottles were stored in a refrigerator immediately after production and remained there until the sample sets were prepared.

VERIFICATION: The laboratories that conducted predistribution testing reported consistent results that were comparable with production data and consensus responses for all three items.

SAMPLE SET ASSEMBLY: A sample set was created by packing Items 1, 2, and 3 together. Each sample set was placed into a Department of Transportation regulated shipping container and returned to the refrigerator until shipment.

Preparation Concentration

Item 1 Drug (Concentration)

EDDP (600 ng/mL)
Methadone (1,200 ng/mL)

Item 2 Drug (Concentration)

Benzoylcegonine (3,000
ng/mL)

Item 3 Drug (Concentration)

Morphine (5,000 ng/mL)
Hydromorphone (50 ng/mL)

Please note that the preparation concentration is the value used for calculations during the test preparation phase and may not necessarily represent the final concentration of the samples. It is advised to view the Grand Mean statistics available in this Summary Report as well as wait for the Individual Reports before evaluating performance.

Summary Comments

This test was designed to allow participants to assess their proficiency in the examination for the presence and concentration of drugs and/or metabolites in urine. The sample sets provided to participants contained three urine samples from individual cases with unique scenarios. (Refer to the Manufacturer's Information for preparation details).

Of the 131 participants that reported screening results for Item 1, the most commonly reported was the presence of Methadone by 110 participants, and EDDP by 38 participants. Of the 117 participants that reported confirmatory results, 112 participants reported the presence of Methadone and 63 participants reported the presence of EDDP.

Of the 129 participants that reported screening results for Item 2, the most commonly reported was the presence of Benzoylcegonine by 126 participants. Of the 123 participants who reported confirmatory results, 115 reported the presence of Benzoylcegonine.

Of the 128 participants who reported screening results for Item 3, the most commonly reported was the presence of Opioids/Opiates by 73 participants, Morphine by 54 participants, and Hydromorphone by 35 participants. Of the 119 participants who reported confirmatory results, 114 reported the presence of Morphine, and 64 reported the presence of Hydromorphone.

For all three items, immunoassay was the most commonly reported screening method and GC/MS was the most commonly reported confirmatory method used to analyze the samples.

If a participant indicated that the confirmatory quantitative result was a single determination and it was reported in ng/mL, the conclusive quantitative result was included in the raw data table. Due to the small number of participants who reported quantitative data, grand mean statistics were only calculated for Item 2.

Screening Results - Item 1

TABLE 1A

Item Scenario:

A 16 year old female was found unconscious at a party. Witnesses from the party noted that she had vomited and was dizzy before passing out. She was immediately transported to the hospital where a urine sample was taken. She died shortly after of respiratory depression.

Item Contents and Preparation Concentration: EDDP 600 ng/mL
Methadone 1,200 ng/mL

WebCode	Screening Results
2MF4Z4	Methadone
2NRWYC	methadone
2P776R	methadone
2QFFV4	Methadone
46AJDZ	Methadone
4M8U6A	Class Methadone
4XBYB6	Methadone, EDDP
63GAHP	No drugs detected utilizing screening methods.
64976X	Methadone
6YGYLP	Methadone, Amphetamine
79ZQRE	Methadone
7BTG3Y	EDDP Methadone
7GEC43	1). 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) and 2). Methadone
7M4YPV	methadone
7XYAX3	Methadone and EDDP
86JP77	No drugs detected utilizing screening methods.
87Q6BR	Methadone
886ENX	Methadone
8ABREC	No drugs detected utilizing screening methods.
8FHD4V	No drugs detected utilizing screening methods.
8H4ALU	Methadone EDDP
8JDAMU	Methadone
8R8KTJ	Methadone

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
8T6UNL	methadone
8YTD9P	methadone
92FADA	methadone
937FTZ	methadone, EDDP, EMDP
96WGTV	Methadone
9FAZRH	Methadone
AFADWQ	No drugs detected utilizing screening methods.
AHJ4LU	methadone EDDP (2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine)
B24JZ8	Methadone
BC6RXR	Methadone
BD33UV	MDMA-Methamphetamine, Methadone, Methadone Cyclic Metabolite, Caffeine
BEFPDV	EDDP (methadone metabolite) methadone
BJKVKK	Methadone
BM4KBP	Methadone EDDP (metabolite of methadone)
C7FR4X	methadone
CB77NX	Methadone EDDP(2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine)
CB79AW	Methadone
CGXBEG	Methadone, EDDP
CL9JKR	Methadone
CLTZ42	Cannabinoids, Methadone, and Methadone Metabolite.
CQZNG3	ELISA Fentanyl, ELISA Methadone
CTTFRN	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) methadone
D2CH4F	Methadone
DD8ME2	Methadone (ELISA)
DFYNH4	Methadone

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
DYB8E8	Methadone
E429PK	Methadone
E8NLW3	Methadone
E9U962	No drugs detected utilizing screening methods.
ECVACP	2-ethylene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) primary methadone metabolite Methadone
EGMGQR	No drugs detected utilizing screening methods.
EKPJFT	No drugs detected utilizing screening methods.
FFPNAY	No drugs detected utilizing screening methods.
FNNZLV	Methadone
FYJ7JZ	No drugs detected utilizing screening methods.
G3JUHM	methadone 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
G8CVHF	Methadone
GA4VXY	No drugs detected utilizing screening methods.
GBXJGU	EIA results: None detected QSCREEN results: EDDP, Methadone identified
GC6ZBK	methadone, EDDP
GKLEDP	No drugs detected utilizing screening methods.
GLDFDL	Methadone
GXPV4Q	Methadone (MDONE)
H6YQFB	Methadone
HC2V8V	No drugs detected utilizing screening methods.
HGF9FV	Randox Investigator Methadone Assay
HMMDAK	No drugs detected utilizing screening methods.
J88Z89	Methadone
JAQDNP	No drugs detected utilizing screening methods.
JQLLWP	Methadone Methadone metabolite
JWPE6Y	Methadone

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
KAQE9N	Methadone
KE2Q7N	Methadone
KHZ22N	No drugs detected utilizing screening methods.
KPK3JL	Methadone
L6AP7P	[Participant reported that drugs were detected, but did not report the drug class or name]
L99Z3P	EDDP. Methadone
LEUZCB	No drugs detected utilizing screening methods.
LQAUPP	Methadone
LUCL6G	Methadone 2-ethylidene-1, 5-dimethyl-3, 3-diphenylpyrrolidine (EDDP)
LY6N9G	methadone 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
MAWVZH	Methadone
MCNWYE	Methadone
MVNTYB	Methadone in immunoassay screening Methadone & EDDP in LCQTOF screening
NE88WJ	EDDP (methadone metabolite) Methadone
NHAAHE	EDDP and methadone
NM36JL	Methadone
NQ2KUU	Methadone
NQJC4E	No drugs detected utilizing screening methods.
NYT8GK	Methadone, EDDP
P6DKZJ	Methadone & EDDP (2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine)
PE49T2	Methadone
PELVRJ	methadone EDDP
PGDWQE	Methadone
PWJHRG	Methadone
PYVXLG	methadone

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
Q6T78Z	Methadone
R9UM2A	Methadone; EDDP (2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine, a metabolite of methadone)
RA4GXA	Methadone
RD3TT9	methadone
T8B3QB	Methadone Methadone metabolite (EDDP)
TQPFM8	Methadone, 2-ethylene-1,5-dimethyl-3,3-diphenylpyrrolidine (metabolite of methadone, EDDP)
TUPL2D	Methadone (MDONE)
UAV83E	methadone
UBRKP8	methadone, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
UEQ79W	methadone
UMNQJ6	methadone 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
URXWB6	Cannabinoids Methadone
UT6E8F	Methadone
UT84BC	Methadone
UVF9T8	Methadone
VJF3EY	methadone EDDP (2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine)
VMEEBY	methadone
VWQBJC	Methadone
VXYRAV	Methadone
WRNW3Z	METHADONE AND EDDP WERE DETECTED
XKMZ2F	Methadone
Y2N7NF	No drugs detected utilizing screening methods.
Y4EAF3	Methadone
YFKFA2	methadone, 2-ethylene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
YKG92B	Methadone

TABLE 1A: Screening Results - Item 1

WebCode	Screening Results
YU3D9A	Methadone and EDDP
YYKDTW	methadone, amphetamine
Z2LUM7	EDDP Methadone
Z3FH62	methadone, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)
Z6JJK6	methadone
ZJ2694	No drugs detected utilizing screening methods.
ZKZ6DB	Methadone

Screening Response Summary for Item 1	Participants: 131
Methadone: 110	
EDDP: 38	
Other Drugs Detected: 8	
No Drugs Detected Utilizing Screening Methods: 20	

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Confirmatory Results - Item 1

TABLE 1B

Item Scenario:

A 16 year old female was found unconscious at a party. Witnesses from the party noted that she had vomited and was dizzy before passing out. She was immediately transported to the hospital where a urine sample was taken. She died shortly after of respiratory depression.

Item Contents and Preparation Concentration: EDDP 600 ng/mL
Methadone 1,200 ng/mL

What drugs/metabolites were detected in Item 1?

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
2MF4Z4	Methadone	✓			
2NRWYC	EDDP	✓			
	methadone	✓			
2P776R	methadone	✓			
2QFFV4	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine [EDDP]	✓			
	Methadone	✓			
3PFRW6	Methadone	✓			
46AJDZ	Methadone	✓			
4M8U6A	EDDP	✓			
	Methadone	✓			
4XBYB6	EDDP	✓			
	Methadone	✓			
64976X	Methadone	✓			
6YGYLP	No drugs/metabolites detected utilizing confirmatory methods.				
79ZQRE	Methadone	✓			
7BTG3Y	EDDP	✓			
	Methadone	✓			
7GEC43	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓			
	Methadone	✓			
7XYAX3	EDDP	✓			
	Methadone		1038		ng/ml
86JP77	No drugs/metabolites detected utilizing confirmatory methods.				
87Q6BR	Methadone	✓			
886ENX	Methadone	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8FHD4V	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓			
	methadone	✓			
8H4ALU	EDDP	✓			
	Methadone	✓			
8JDAMU	EDDP	✓			
	Methadone	✓			
8R8KTJ	Methadone	✓			
8T6UNL	methadone	✓			
8YTD9P	EDDP	✓			
	methadone	✓			
92FADA	EDDP	✓			
	Methadone	✓			
937FTZ	EDDP	✓			
	methadone	✓			
	EMDP	✓			
96WGTV	Methadone	✓			
9FAZRH	Methadone	✓			
AFADWQ	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP), a metabolite of methadone	✓			
	Methadone	✓			
AHJ4LU	EDDP (2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine)	✓			
	methadone	✓			
B24JZ8	EDDP	✓			
	methadone	✓			
BC6RXR	Methadone	✓			
BD33UV	Methadone	✓			
BEFPDV	EDDP (methadone metabolite)	✓			
	Methadone	✓			
BJKVKK	Methadone	✓			
BM4KBP	EDDP	✓			
	methadone	✓			
C7FR4X	Eddp	✓			
	Methadone	✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
CB77NX	EDDP	✓			
	Methadone	✓			
CB79AW	EDDP	✓			
	METHADONE	✓			
CGXBEG	EDDP		0,92	30	mg/l
	Methadone		0,94	30	mg/l
CL9JKR	EDDP	✓			
	Methadone	✓			
	Caffeine	✓			
CLTZ42	Methadone Metabolite	✓			
	Methadone	✓			
CM3E3U	Methadone metabolite A	✓			
	Methadone	✓			
CQZNG3	EDDP	✓			
	Methadone	✓			
	EMDP	✓			
CTTFRN	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓			
	methadone	✓			
D2CH4F	methadone	✓			
DD8ME2	EDDP	✓			
	Methadone	✓			
	EMDP	✓			
DFYNH4	EDDP	✓			
	Methadone	✓			
DYB8E8	Methadone metabolite (EDDP)	✓			
	Methadone	✓			
E34XTG	Methadone	✓			
E8NLW3	EDDP	✓			
	Methadone	✓			
ECVACP	2-ethylene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) primary methadone metabolite	✓			
	Methadone	✓			
EK969J	Methadone	✓			
EKPJFT	No drugs/metabolites detected utilizing confirmatory methods.				

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?				
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty Units
G3JUHM	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓		
	methadone	✓		
G8CVHF	Methadone	✓		
GBXJGU	EDDP	✓		
	Methadone	✓		
GC6ZBK	EDDP	✓		
	methadone	✓		
GLDFDL	Methadone	✓		
GXPV4Q	Methadone	✓		
GY4APF	METHADONE	✓		
H6YQFB	Methadone	✓		
HGF9FV	EDDP	✓		
	METHADONE	✓		
HMMDAK	Methadone	✓		
J88Z89	Methadone	✓		
JQLLWP	Methadone metabolite	✓		
	Methadone	✓		
JWPE6Y	EDDP	✓		
	Methadone	✓		
KAQE9N	Methadone EDDP	✓		
	Methadone	✓		
KE2Q7N	EDDP	✓		
	Methadone	✓		
KHZ22N	No drugs/metabolites detected utilizing confirmatory methods.			
L99Z3P	EDDP	✓		
	Methadone	✓		
LEUZCB	Methadone	✓		
LUCL6G	2-ethylidene-1, 5-dimethyl-3, 3-diphenylpyrrolidine (EDDP)	✓		
	Methadone	✓		
LY6N9G	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓		
	methadone	✓		

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
MAWVZH	EDDP Methadone	✓	950.55		ng/ml
MCNWYE	Methadone	✓			
MVNTYB	EDDP Methadone	✓ ✓			
NE88WJ	EDDP (methadone metabolite) Methadone	✓ ✓			
NHAAHE	EDDP methadone	✓ ✓			
NM36JL	Methadone	✓			
NQ2KUU	EDDP Methadone	✓ ✓			
NQJC4E	EDDP methadone	✓ ✓			
NYT8GK	Methadone		1056		ng/ml
P6DKZJ	EDDP Methadone	✓ ✓			
PE49T2	Methadone	✓			
PELVRJ	EDDP methadone	✓ ✓			
PGDWQE	Methadone	✓			
PWJHRG	Methadone		1405		ng/mL
PYVXLG	methadone-M (Eddp) methadone	✓ ✓			
Q6T78Z	Methadone	✓			
R9UM2A	eddp (2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine) methadone	✓ ✓			
RA4GXA	Methadone	✓			
RA7737	METHADONE CAFFEINE	✓ ✓			
RD3TT9	methadone	✓			
T8B3QB	Methadone metabolite (EDDP) Methadone	✓ ✓			

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?				
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty Units
TQPFM8	2-ethylene-1,5-dimethyl-3,3-diphenylpyrrolidine (metabolite of methadone, EDDP)	✓		
	Methadone	✓		
TUPL2D	Methadone	✓		
UAV83E	methadone	✓		
UBRKP8	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓		
	methadone	✓		
UEQ79W	methadone	✓		
UMNQJ6	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓		
	methadone	✓		
URXWB6	Methadone	✓		
UT84BC	Methadone	✓		
UVF9T8	Methadone	✓		
VJF3EY	EDDP	✓		
	methadone	✓		
VMEEBY	methadone	✓		
VWQBJC	Methadone	✓		
VXYRAV	Methadone	✓		
WRNW3Z	EDDP	✓		
	Methadone	✓		
XKMZ2F	Methadone	✓		
Y4EAF3	Methadone	✓		
YFKFA2	EDDP	✓		
	methadone	✓		
YU3D9A	EDDP	✓		
	Methadone	✓		
YYKDTW	No drugs/metabolites detected utilizing confirmatory methods.			
Z2LUM7	EDDP	✓		
	Methadone	✓		
Z3FH62	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	✓		
	methadone	✓		

TABLE 1B: Confirmatory Results - Item 1

What drugs/metabolites were detected in Item 1?

WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
Z6JJK6	methadone	✓			
ZKZ6DB	Methadone	✓			

Confirmatory Response Summary for Item 1 **Participants: 117**

EDDP:	63
Methadone:	112
Other Identified Drugs/Metabolites:	5
No Drugs/Metabolites Detected Utilizing Confirmatory Methods:	6

Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Raw Data - Item 1

TABLE 1C

Item 1 Raw Data - EDDP
Preparation concentration: 600 ng/mL

WebCode	List of Raw Data determinations (ng/mL)
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No Raw Data results were reported for this Drug/Analyte for Item 1.

Statistical Analysis for Item 1 - EDDP

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

TABLE 1C: Raw Data - Item 1
Item 1 Raw Data - Methadone
Preparation concentration: 1,200 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		
7XYAX3	1,010.2	1,044.7	1,058.3
MAWVZH	991.23	909.90	
NYT8GK	1,090.0	1,046.0	1,031.0
PWJHRG	1,395.2	1,414.3	

Statistical Analysis for Item 1 - Methadone

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

Reporting Procedures - Item 1

TABLE 1D - Item 1

WebCode	Quantitative Reporting Procedures
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7XYAX3	The mean of duplicate/several determinations.
CGXBEG	A single determination.
MAWVZH	The mean of duplicate/several determinations.
NYT8GK	The mean of duplicate/several determinations.
PWJHRG	The mean of duplicate/several determinations.

Response Summary for Item 1	Participants: 5
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A single determination:	1 (20.0%)
The mean of duplicate/several determinations:	4 (80.00%)
Other:	0 (0.0%)

Methods of Analysis - Item 1

TABLE 1E - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
2MF4Z4	Immunoassay GC/MS	✓ ✓	✓	
2NRWYC	Immunoassay GC/MS	✓	✓	
2P776R	GC/MS Immunoassay	✓ ✓	✓	
2QFFV4	Immunoassay GC/MS GC/NPD LC/MS/MS	✓ ✓	✓ ✓	
3PFRW6	GC/MS		✓	
46AJDZ	Immunoassay GC/MS	✓ ✓	✓	
4M8U6A	Immunoassay GC/MS	✓ ✓	✓	
4XBYB6	GC/MS LC/MS/MS LC-QTOF	✓	✓ ✓	
63GAHP	LC/MS/MS	✓		
64976X	Immunoassay GC/MS	✓ ✓	✓	
6YGYLP	Immunoassay LC/MS/MS	✓	✓	
79ZQRE	Immunoassay LC/MS/MS	✓	✓	
7BTG3Y	LC/MS/MS	✓	✓	
7GEC43	LC-High Resolution Tandem Mass Spectrometry GC/MS	✓	✓	
7M4YPV	Immunoassay	✓		
7XYAX3	GC/MS LC/MS/MS	✓	✓	✓
86JP77	LC/MS/MS	✓	✓	✓
87Q6BR	Orbitrap-LC/MS LC/MS/MS	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
886ENX	Immunoassay GC/MS	✓	✓	
8ABREC	Immunoassay	✓		
8FHD4V	LC/MS/MS GC/MS Immunoassay	✓	✓ ✓	
8H4ALU	GC/MS LC/MS/MS	✓	✓	
8JDAMU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8R8KTJ	Immunoassay GC/MS	✓ ✓	✓	
8T6UNL	Immunoassay GC/MS	✓ ✓	✓	
8YTD9P	LC/MS LC-TOFMS	✓ ✓	✓ ✓	
92FADA	Immunoassay LC-QTOF	✓	✓	
937FTZ	LC/MS/MS	✓	✓	
96WGTV	Immunoassay GC/MS	✓ ✓	✓	
9FAZRH	Immunoassay GC/MS	✓ ✓	✓	
AFADWQ	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
AHJ4LU	Immunoassay LC/MS/MS GC/MS	✓ ✓ ✓	✓ ✓	
B24JZ8	Immunoassay LC/QTOF GC/MS	✓	✓ ✓	
BC6RXR	Immunoassay GC/MS	✓ ✓	✓	
BD33UV	Immunoassay GC/MS	✓ ✓	✓	
BEFPDV	LC/MS/MS	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
BJKVKK	Immunoassay GC/MS	✓	✓	
BM4KBP	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	
C7FR4X	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	
CB77NX	GC/MS LC/MS/MS	✓	✓	
CB79AW	Immunoassay LC/MS/QTOF GC/MS	✓	✓ ✓	
CGXBEG	LC/MS/MS	✓	✓	
CL9JKR	Immunoassay GC/MS	✓	✓	
CLTZ42	Immunoassay GC/MS	✓ ✓	✓	
CM3E3U	GC/MS		✓	
CQZNG3	Immunoassay GC/MS	✓ ✓	✓	
CTTFRN	High resolution accurate mass	✓	✓	
D2CH4F	Immunoassay GC/MS	✓	✓	
DD8ME2	Immunoassay GC/MS	✓ ✓	✓	
DFYNH4	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
DYB8E8	LC/MS/MS	✓	✓	
E34XTG	GC/MS		✓	
E429PK	Immunoassay	✓		
E8NLW3	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
E9U962	Immunoassay	✓		

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
ECVACP	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
EGMGQR	Immunoassay	✓		
EK969J	GC/MS		✓	
EKPJFT	Immunoassay	✓		
FFPNAY	LC/MS/MS	✓		
FNNZLV	Immunoassay	✓		
FYJ7JZ	Immunoassay	✓		
G3JUHM	GC/MS LC/MS/MS Immunoassay	✓ ✓ ✓	✓ ✓	
G8CVHF	LC/MS/MS	✓	✓	
GA4VXY	LC/MS/MS	✓		
GBXJGU	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
GC6ZBK	GC/MS LC/MS/MS Immunoassay	✓ ✓ ✓	✓ ✓	
GKLEDP	Immunoassay			
GLDFDL	Immunoassay GC/MS	✓ ✓	✓	
GXPV4Q	Immunoassay LC/MS/MS	✓	✓	
GY4APF	GC/MS		✓	
H6YQFB	Immunoassay GC/MS	✓	✓	
HC2V8V	Immunoassay	✓		
HGF9FV	Immunoassay GC/MS	✓ ✓	✓	
HMMDAK	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
J88Z89	Immunoassay GC/MS	✓ ✓	✓	
JQLLWP	GC/MS LC Q-TOF MS	✓ ✓	✓ ✓	
JWPE6Y	Immunoassay LC-QTOF	✓	✓	
KAQE9N	Immunoassay GC/MS	✓	✓	
KE2Q7N	Immunoassay GC/MS	✓	✓	
KHZ22N	Immunoassay	✓		
KPK3JL	GC/MS	✓		
L99Z3P	Immunoassay LC-QTOF-MS GC/MS	✓ ✓	✓	
LEUZCB	Immunoassay GC/MS	✓	✓	
LQAUPP	Immunoassay	✓		
LUCL6G	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
LY6N9G	LC/MS/MS GC/MS	✓	✓ ✓	
MAWVZH	Immunoassay LC/MS/MS	✓	✓	✓
MCNWYE	Immunoassay GC/MS	✓ ✓	✓	
MVNTYB	Immunoassay LCQTOF LC/MS/MS	✓ ✓	✓	
NE88WJ	LC/MS/MS	✓	✓	
NHAAHE	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
NM36JL	Immunoassay GC/MS	✓	✓	
NQ2KUU	Immunoassay LC-QTOF	✓	✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
NQJC4E	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
NYT8GK	LC/MS/MS		✓	✓
P6DKZJ	LC/MS LC/MS/MS	✓	✓	
PE49T2	Immunoassay GC/MS	✓ ✓	✓	
PELVRJ	GC/MS LC/MS/MS	✓	✓	
PGDWQE	Immunoassay GC/MS	✓ ✓	✓	
PWJHRG	Immunoassay	✓		
PYVXLG	GC/MS		✓	
Q6T78Z	Immunoassay GC/MS	✓ ✓	✓	
R9UM2A	LC-HRMS/MS	✓	✓	
RA4GXA	Immunoassay LC/MS/MS	✓	✓	
RA7737	GC/MS		✓	
RD3TT9	LC/MS/MS GC/MS	✓	✓	
T8B3QB	LC/MS/MS	✓	✓	
TQPFM8	LC-HRMS/MS GC/MS	✓	✓	
TUPL2D	Immunoassay LC/MS/MS	✓	✓	
UAV83E	Immunoassay LC/MS/MS	✓	✓	
UBRKP8	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	
UEQ79W	Immunoassay GC/MS	✓ ✓	✓	
UMNQJ6	LC-HRMSMS GC/MS	✓ ✓	✓ ✓	

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
URXWB6	Immunoassay LC/MS/MS	✓	✓	
UT6E8F	Enzymatic Immunoassay	✓		
UT84BC	GC/MS LC/MS/MS LC-MS/QTOF	✓ ✓ ✓	✓ ✓ ✓	
UVF9T8	LC/MS/MS GC/MS	✓ ✓	✓	
VJF3EY	GC/MS LC/MS/MS	✓	✓	
VMEEBY	LC/MS/MS QTOF uplc-ms	✓	✓	
VWQBJC	Immunoassay LC/MS/MS	✓	✓	
VXYRAV	Immunoassay GC/MS	✓ ✓	✓	
WRNW3Z	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
XKMZ2F	LC/MS/MS GC/MS	✓	✓	
Y2N7NF	Immunoassay	✓		
Y4EAF3	Immunoassay GC/MS	✓ ✓	✓	
YFKFA2	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	
YKG92B	Immunoassay	✓		
YU3D9A	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
YYKDTW	Immunoassay LC/MS/MS	✓	✓	
Z2LUM7	LC/MS/MS	✓	✓	
Z3FH62	LC-HRMS/MS	✓	✓	
Z6JK6	Immunoassay GC/MS	✓	✓	
ZJ2694	Immunoassay	✓		

TABLE 1E: Methods of Analysis - Item 1

WebCode	Method	Screening	Confirmatory	Quantitation
ZKZ6DB	Immunoassay GC/MS	✓	✓	

Response Summary for Item 1 - Methods of Analysis				Participants: 135
	Screening	Confirmatory	Quantitation	
Immunoassay:	88	0	0	
GC/MS:	41	77	0	
LC/MS:	2	1	0	
LC/MS/MS:	26	51	4	
Other:	17	14	0	

Additional Comments for Item 1

TABLE 1F

WebCode	Item Comments
2MF4Z4	Methadone metabolite not reported per [Laboratory] Toxicology Drug Panel
3PFRW6	Caffeine was also detected in Item 1.
6YGYLP	This sample screened presumptive positive on ELISA for amphetamine. Confirmation testing was done on LC/MS/MS and no drugs were detected. This sample screened presumptive positive on ELISA for methadone. The laboratory currently does not have a confirmation method for methadone.
7GEC43	Internal standard used: Mepivacaine
7M4YPV	Cutoff 150 ng/mL. Creatinine Normal
7XYAX3	EDDP is a metabolite of methadone
86JP77	Panel includes only the following nine drugs: Cyclobenzaprine, Imipramine, MDPV, Meperidine, Mitragynine, Normeperidine, Phencyclidine, Quetiapine, Zolpidem.
886ENX	EDDP and DDP, were found, but not confirmed. The IRMs used were phenyltoloxamine and heptabarbital.
8FHD4V	Methadone Internal standard - Mepivacaine LOD - 25 mcg/L. EDDP Internal standard - Mepivacaine LOD - 3.0 mcg/L
8YTD9P	Note: the naturally occurring phenethylamine was probably also present in the sample.
96WGTV	Methadone metabolite, EDDP, was identified and a spectra was printed. EDDP is not included in reported compounds because it is not part of the reported drugs panel.
AFADWQ	Internal Standard-Mepivacaine/Nalorphine, Mepivacaine
BD33UV	Internal standards used in GC/MS were Hexobarbital and Phenyltoloxamine. ELISA Screen was positive for MDMA/Methamphetamine. These drugs were then found to screen negative on GC/MS.
BJKVKK	Phenyltoloxamine and Hexobarbital internal reference materials used for qualitative acid/base extraction. Sample also contained unconfirmed EDDP and unconfirmed caffeine, identified by GC/MS but not confirmed/reported.
BM4KBP	Internal standard used: mepivacaine
CL9JKR	IS for GC-MS screening is methaqualone. Immunoassay methadone cutoff (EMIT) is 300. We do not have LOD/LOQ information for these analytes on GC-MS.
CLTZ42	Cannabinoids were positive by immunoassay screen (cut off THCA 10 ng/mL) but were not detected by confirmatory method (LOD THC - 1.0ng/mL, THCA - 5.0 ng/mL).
CM3E3U	Internal Standard: SKF-525A
CQZNG3	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards. Fentanyl screened positive via ELISA, but was not detected via GC/MS.
CTTFRN	internal standard = mepivacaine
D2CH4F	Confirmatory ISTD: NPA and SKF
DD8ME2	Hexobarbital, n-Propylamphetamine, and Mepivacaine used as internal standards.
E34XTG	Internal Standard: Flurazepam Sample preparation: L/L extraction. The final extract is derevativized with BSTFA and analyzed by GC-MS LOD metadone: 7,5 ng/mL

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
E9U962	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
ECVACP	Internal Standard: Mepivacaine/Nalorphine, Mepivacaine
EGMGQR	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
EK969J	Tetracosane as internal standard Detection limit 37 for methadone
FNNZLV	Cutoff: 150 ng/mL. Creatinine Normal
FYJ7JZ	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
G3JUHM	Internal Standard - mepivacaine
GBXJGU	QSCREEN internal standard - Mepivacaine GCMS internal standard - Mepivacaine GCMS confirmation extraction notes: Lidocaine, Citalopram indicated - Not reported, QSN not indicative, weak mass spectrum 2-Ethyl-5-methyl-3,3-diphenylpyrrolidine; EMDP peaks; 1,5-dimethyl-3,3-diphenyl-2-Pyrrolidinone peaks indicated - Not reported, no RRT standard available for comparison
H6YQFB	Internal Standard: carbinoxamine Limit of Detection: 20 ng/mL
HC2V8V	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
JQLLWP	Mephentermine, acepromazine, brucine ISTD for GCMS Screen. D3 Methadone ISTD for QTOF screen. Methadone metabolite only detected in GCMS screen
KAQE9N	Codeine D3 / Diazepam D5
KPK3JL	Liquid-Liquid Extraction followed by Derivatization using BSTFA was carried out. Methadone detected in Acidic extract by GCMS analysis. Methadone detected in extraction performed by Quechers and C18
L99Z3P	Internal Standards - Mepivacaine, Nalorphine
LEUZCB	The methods used were immunoassay an GC/MS
LQAUPP	Cutoff for Methadone is 150 ng/mL. Creatinine is normal.
LUCL6G	Mepivacaine was used as internal standard for all testing procedures excluding immunoassay.
LY6N9G	Internal Standard: mepivacaine for both LC/MS/MS and GC/MS testing
NM36JL	Phenyltoloxamine internal standard; Base-neutral liquid-liquid extraction; General GC/MS method with full scan MS data

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
NQJC4E	internal standard= mepivacaine
P6DKZJ	LOD: 10 ng/mL
PE49T2	Promazine used as an internal std
PWJHRG	The results are based on a 3 point calibration curve since the top two calibrators displayed evidence of detector saturation. The sample fell within the linear part of the curve, as did the QC sample which passed internal acceptance criteria.
R9UM2A	Artifacts found: caffeine, lidocaine
RA4GXA	Methadone Cutoff 50 ng/mL
RA7737	INTERNAL STANDRAD: FLURAZEPAM
TQPFM8	Mepivacaine
UEQ79W	methadone metabolite detected, not reported per case approach
UMNQJ6	Internal standards: Mepivacaine/Mephobarbital (HRMS) and Mepivacaine/Naloprhine (GCMS)
URXWB6	Methadone Cutoff 50 ng/mL. THC-COOH not detected on confirmation method performed on 03/29/2023. THC-COOH cutoff 10 ng/mL
UT6E8F	No methodology available for methadone confirmatory analysis
VMEEBY	QTOF internal standard CBHP. LC-MS/MS internal standard methadone D3, LCO 12.5 mg/mL
VWQBJC	Immunoassay LOD: 150 ng/mL LC/MS/MS. Internal Standard: Methadone D9 LC/MS/MS LOD: 10 ng/mL
WRNW3Z	Internal standard: Flurazepam and Aprobarbital LoD: 10 ng/mL.
Y2N7NF	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
Y4EAF3	Non-Panel drug (EDDP) was detected in initial screen. Not pursued, not reported.
YKFKA2	Mepivacaine used as internal standard
YKG92B	Cutoff: 150 ng/mL, creatinine normal
YU3D9A	The cut-off value of methadone is 50 ng/mL for LC/MS/MS, and 60ng/mL for GC/MS . The cut-off value of EDDP is 50 ng/mL for LC/MS/MS
YYKDTW	This sample screened presumptive positive for amphetamine. Confirmatory testing was performed for this class and no drugs were detected. This sample screened presumptive positive for methadone, however our lab does not currently have a confirmation method for this class so these results were not confirmed.
Z3FH62	mepivacaine internal standard
Z6JJK6	hexobarbital internal reference material. phenyltoloxamine internal reference material. Methadone metabolite (EDDP) detected but not confirmed. no reference material available.

TABLE 1F: Additional Comments for Item 1

WebCode	Item Comments
ZJ2694	The laboratory only screens for the following drugs/drug classes utilizing the Enzyme Multiplied Immunoassay Technique (EMIT): amphetamines, benzodiazepines, cannabinoids, cocaine, opiates, and pcp. The opiates screening panel does not include fentanyl. If no drugs are detected with the standard screening panel, additional testing will not be performed on the sample unless specifically directed by the submitting agency. The submitting agency must indicate what drug to test for; the lab will only test the drug if a method and proper standards are available.

Screening Results - Item 2

TABLE 2A

Item Scenario:

A 55 year old female was pulled over for reckless driving. The officer noticed that her pupils were dilated and she was talking very fast and displaying erratic behavior. A urine sample was collected for analysis two hours later.

Item Contents and Preparation Concentration: Benzoyllecgonine 3,000 ng/mL

WebCode	Screening Results
2MF4Z4	Benzoyllecgonine
2NRWYC	cocaine
2P776R	benzoyllecgonine
2QFFV4	Benzoyllecgonine
46AJDZ	Cocaine class Benzoyllecgonine
4M8U6A	Class Benzoyllecgonine
4XBYB6	Cocaine and metabolites
63GAHP	Benzoyllecgonine
64976X	Cocaine metabolites
6YGYLP	Benzoyllecgonine and Amphetamine
79ZQRE	Benzoyllecgonine
7BTG3Y	Benzoyllecgonine
7GEC43	Benzoyllecgonine
7M4YPV	cocaine
7XYAX3	Benzoyllecgonine
86JP77	No drugs detected utilizing screening methods.
87Q6BR	Benzoyllecgonine
886ENX	Cocaine/Benzoyllecgonine
8ABREC	Cocaine Metabolite
8FHD4V	Cocaine/Cocaine Metabolites Class
8H4ALU	Cocaine Benzoyllecgonine
8JDAMU	Benzoyllecgonine
8R8KTJ	Cocaine metabolite(s)
8T6UNL	cocaine metabolite

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
8YTD9P	benzoylecgonine
92FADA	Cocaine metabolites
937FTZ	cocaine, benzoylecgonine
96WGTV	Benzoylecgonine
9FAZRH	Benzoylecgonine
AFADWQ	cocaine/cocaine metabolite
AHJ4LU	cocaine and/or cocaine metabolites via immunoassay benzoylecgonine
B24JZ8	cocaine metabolites
BC6RXR	cocaine class
BD33UV	Cocaine/BEG, MDMA-Methamphetamine, Caffeine, Benzoylecgonine Isopropyl Ester, Ecgonidine
BEFPDV	Benzoylecgonine/Cocaine breakdown product
BJKVKK	cocaine/BEG
BM4KBP	class: cocaine/cocaine metabolites drug: benzoylecgonine (BZE)
C7FR4X	cocaine metabolites
CB77NX	Benzoylecgonine
CB79AW	COCAINE
CGXBEG	benzoylecgonine
CLTZ42	Cannabinoids and cocaine/metabolites.
CQZNG3	ELISA Cocaine/BE
CTTFRN	benzoylecgonine (bze)
D2CH4F	BE/cocaine
DD8ME2	Cocaine/Benzoylecgonine (ELISA)
DFYNH4	Cocaine Metabolites
DYB8E8	Benzoylecgonine
E429PK	Benzoylecgonine
E8NLW3	Cocaine metabolites

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
E9U962	Cocaine- cutoff (300 ng/mL)
ECVACP	Cocaine/Cocaine Metabolites BZE
EGMGQR	Cocaine- (300 ng/mL)
EKPJFT	No drugs detected utilizing screening methods.
FFPNAY	Benzoylecgonine
FNNZLV	Cocaine
FYJ7JZ	Cocaine-cutoff (300 ng/mL)
G3JUHM	cocaine/cocaine metabolites & benzoylecgonine
G8CVHF	Benzoylecgonine
GA4VXY	Benzoylecgonine
GBXJGU	Benzoylecgonine
GC6ZBK	cocaine and metabolites class
GKLEDP	Cocaína
GLDFDL	Cocaine metabolite, cocaine
GXPV4Q	Cocaine Metabolites (BZG)
H6YQFB	Cocaine Metabolite
HC2V8V	Cocaine- cutoff (300 ng/mL)
HGF9FV	Randox Investigator Benzoylecgonine/Cocaine Assay
HMMDAK	Cocaine metabolite
J88Z89	Benzoylecgonine
JAQDNP	Benzoylecgonine
JQLLWP	Benzoyecgonine
JWPE6Y	Cocaine metabolites
KAQE9N	Cocaine
KE2Q7N	Benzoylecgonine
KHZ22N	No drugs detected utilizing screening methods.
KPK3JL	Benzoylecgonine

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
L6AP7P	Benzoylecgonine Lidocaine - below LOQ
L99Z3P	Benzoylecgonine
LEUZCB	The Immunoassay result was positive for cocaine or its metabolites
LQAUPP	Cocaine
LUCL6G	cocaine/cocaine metabolites
LY6N9G	cocaine/cocaine metabolites (Immunoassay)
MAWVZH	Cocaine
MCNWYE	Cocaine metabolite
MVNTYB	cocaine group class in immunoassay screening Benzoylecgonine in LCQTOF screening
NE88WJ	Benzoylecgonine/Cocaine breakdown product
NHAAHE	benzoylecgonine
NM36JL	Cocaine Metabolite
NQ2KUU	Cocaine metabolites
NQJC4E	cocaine/cocaine metabolites
NYT8GK	Benzoylecgonine
P6DKZJ	Benzoylecgonine
PE49T2	Benzoylecgonine (cocaine metabolite)
PELVRJ	Benzoylecgonine
PGDWQE	Cocaine & metabolites (class), Possible Benzoylecgonine
PWJHRG	Cocaine and/or cocaine metabolite
PYVXLG	cocain
Q6T78Z	Cocaine
R9UM2A	Benzoylecgonine
RA4GXA	Cocaine/Benzoylecgonine
RD3TT9	Benzoylecgonine
T8B3QB	Benzoylecgonine
TQPFM8	benzoylecgonine

TABLE 2A: Screening Results - Item 2

WebCode	Screening Results
TUPL2D	Cocaine Metabolites (BZG)
UAV83E	cocaine metabolites
UBRKP8	cocaine/cocaine metabolites
UEQ79W	cocaine/metabolite
UMNQJ6	benzoylecgonine
URXWB6	Cocaine/Benzoylecgonine
UT6E8F	Benzoylecgonine
UT84BC	Benzoyl ecogonine and Cocaine
UVF9T8	Benzoylecgonine
VMEEBY	benzoylecgonine cocaine
VWQBJC	Cocaine Metabolites
VXYRAV	Benzoylecgonine (Cocaine metabolite)
WRNW3Z	Benzoylecgonine was detected
XKMZ2F	Benzoylecgonine
Y2N7NF	Cocaine- cutoff (300 ng/mL)
Y4EAF3	Cocaine
YFKFA2	cocaine class (immunoassay) = Benzoylecgonine
YKG92B	Cocaine
YU3D9A	Benzoylecgonine
YYKDTW	benzoylecgonine, amphetamine
Z2LUM7	Benzoylecgonine
Z3FH62	benzoylecgonine
Z6JJK6	cocaine/benzoylecgonine
ZJ2694	Cocaine
ZKZ6DB	Cocaine Metabolite

Screening Response Summary for Item 2		Participants: 129
Benzoyllecgonine:	126	
Other Drugs Detected:	5	
No Drugs Detected	3	
Utilizing Screening Methods:		

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Confirmatory Results - Item 2

TABLE 2B

Item Scenario:

A 55 year old female was pulled over for reckless driving. The officer noticed that her pupils were dilated and she was talking very fast and displaying erratic behavior. A urine sample was collected for analysis two hours later.

Item Contents and Preparation Concentration: Benzoylcegonine 3,000 ng/mL

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
2MF4Z4	Benzoylcegonine	✓			
2NRWYC	benzoylcegonine	✓			
2P776R	benzoylcegonine	✓			
2QFFV4	Benzoylcegonine	✓			
3PFRW6	Caffeine	✓			
46AJDZ	Benzoylcegonine	✓			
4M8U6A	Benzoylcegonine	✓			
4XBYB6	Benzoylcegonine	✓			
63GAHP	Benzoylcegonine	✓			
64976X	Benzoylcegonine	✓			
6YGYLP	No drugs/metabolites detected utilizing confirmatory methods.				
79ZQRE	Benzoylcegonine	✓			
7BTG3Y	Benzoylcegonine	✓			
7GEC43	Benzoylcegonine	✓			
7XYAX3	Benzoylcegonine		2511		ng/ml
86JP77	No drugs/metabolites detected utilizing confirmatory methods.				
87Q6BR	Benzoylcegonine		2818		ng/ml
886ENX	Benzoylcegonine	✓			
	Cocaine	✓			
8ABREC	Benzoylcegonine		3089	618	ng/mL
8FHD4V	benzoylcegonine	✓			
8H4ALU	Benzoylcegonine	✓			
	Cocaine	✓			
8JDAMU	Benzoylcegonine	✓			
8R8KTJ	Benzoylcegonine	✓			
8T6UNL	benzoylcegonine (cocaine metabolite)	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8YTD9P	benzoylecgonine	✓			
92FADA	Benzoylecgonine	✓			
937FTZ	benzoylecgonine	✓			
	cocaine	✓			
96WGTV	Benzoylecgonine	✓			
9FAZRH	Benzoylecgonine	✓			
AFADWQ	Benzoylecgonine	✓			
AHJ4LU	benzoylecgonine	✓			
B24JZ8	benzoylecgonine	✓			
BC6RXR	Benzoylecgonine	✓			
BD33UV	Benzoylecgonine	✓			
	Cocaine	✓			
BEFPDV	Benzoylecgonine/Cocaine breakdown product	✓			
BJKVKK	Cocaine	✓			
BM4KBP	benzoylecgonine (BZE)	✓			
C7FR4X	benzoylecgonine	✓			
CB77NX	Benzoylecgonine	✓			
CB79AW	BENZOYLECGONINE	✓			
	ECGONINE	✓			
CGXBEG	benzoylecgonine		3,9	30	mg/l
CLTZ42	Cocaine	✓			
CM3E3U	No drugs/metabolites detected utilizing confirmatory methods.				
CQZNG3	Benzoylecgonine	✓			
	Cocaine	✓			
CTTFRN	benzoylecgonine	✓			
D2CH4F	No drugs/metabolites detected utilizing confirmatory methods.				
DD8ME2	Benzoylecgonine	✓			
	Cocaine	✓			
DFYNH4	Benzoylecgonine	✓			
DYB8E8	Benzoylecgonine		> 2000		ng/mL
E34XTG	Benzoylecgonine	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
E8NLW3	Benzoylecgonine	✓			
ECVACP	Benzoylecgonine	✓			
EK969J	Benzoylecgonine	✓			
EKPJFT	No drugs/metabolites detected utilizing confirmatory methods.				
FFPNAY	Benzoylecgonine	✓			
G3JUHM	benzoylecgonine	✓			
G8CVHF	Benzoylecgonine	✓			
GA4VXY	Benzoylegonine	✓			
GBXJGU	Benzoylecgonine	✓			
GC6ZBK	benzoylecgonine	✓			
GLDFDL	Benzoylecgonine	✓			
	Cocaine	✓			
GXPV4Q	Benzoylecgonine	✓			
GY4APF	Benzoylecgonine	✓			
H6YQFB	Benzoylecgonine	✓			
HGF9FV	BENZOYLECGONINE	✓			
HMMDAK	Benzoylecgonine	✓			
J88Z89	Benzoylecgonine	✓			
JAQDNP	Benzoylecgonine		3100		ng/ml
JQLLWP	Benzoylecgonine	✓			
JWPE6Y	Benzoylecgonine	✓			
KAQE9N	benzoylecgonine	✓			
KE2Q7N	Benzoylecgonine	✓			
KHZ22N	No drugs/metabolites detected utilizing confirmatory methods.				
L6AP7P	Benzoylecgonine	✓			
	Cocaine	✓			
	Lidocaine	✓			
L99Z3P	Benzoylecgonine	✓			
LEUZCB	Benzoylecgonine	✓			
LUCL6G	benzoylecgonine	✓			

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
LY6N9G	benzoylecgonine	✓			
MAWVZH	Benzoylecgonine		2335.80		ng/ml
MCNWYE	Benzoylecgonine	✓			
MVNTYB	Benzoylecgonine	✓			
NE88WJ	Benzoylecgonine/Cocaine breakdown product	✓			
NHAAHE	benzoylecgonine	✓			
NM36JL	Benzoylecgonine				
NQ2KUU	Benzoylecgonine	✓			
NQJC4E	benzoylecgonine	✓			
NYT8GK	Benzoylecgonine		2189		ng/ml
P6DKZJ	Benzoylecgonine	✓			
PE49T2	Benzoylecgonine (cocaine metabolite)	✓			
PELVRJ	Benzoylecgonine	✓			
PGDWQE	Benzoylecgonine	✓			
PWJHRG	BZE		2969.80		ng/mL
PYVXLG	cocaine-M (benzoyl ecognine) TMS	✓			
Q6T78Z	Benzoylecgonine	✓			
R9UM2A	Benzoylecgonine	✓			
RA4GXA	Benzoylecgonine		> 1000		ng/mL
RA7737	Benzoylecgonine	✓			
	Caffeine	✓			
RD3TT9	benzoylecgonine	✓			
	cocaine	✓			
T8B3QB	Benzoylecgonine	✓			
TQPFM8	benzoylecgonine	✓			
TUPL2D	Benzoylecgonine	✓			
UAV83E	benzoylecgonine	✓			
UBRKP8	benzoylecgonine	✓			
UEQ79W	benzoylecgonine	✓			
UMNQJ6	benzoylecgonine	✓			
URXWB6	Benzoylecgonine		> 1000		ng/mL

TABLE 2B: Confirmatory Results - Item 2

What drugs/metabolites were detected in Item 2?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
UT6E8F	Benzoylecgonine		2886.84	2.61	ng/ml
UT84BC	Benzoyl ecogonine and Cocaine	✓			
UVF9T8	Benzoylecgonine	✓			
VMEEBY	benzoylecgonine	✓			
VWQBJC	Benzoylecgonine	✓			
VXYRAV	Benzoylecgonine	✓			
WRNW3Z	Benzoylecgonine	✓			
XKMZ2F	Benzoylecgonine	✓			
Y4EAF3	Benzoylecgonine	✓			
YFKFA2	benzoylecgonine	✓			
YU3D9A	Benzoylecgonine	✓			
YYKDTW	No drugs/metabolites detected utilizing confirmatory methods.				
Z2LUM7	Benzoylecgonine	✓			
Z3FH62	benzoylecgonine	✓			
Z6JJK6	benzoylecgonine	✓			
	cocaine	✓			
ZJ2694	Benzoylecgonine	✓			
ZKZ6DB	Benzoylecgonine	✓			

Confirmatory Response Summary for Item 2		Participants: 123
Benzoylecgonine:	115	
Other Identified Drugs/Metabolites:	3	
No Drugs/Metabolites Detected Utilizing Confirmatory Methods:	7	

Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Raw Data - Item 2

TABLE 2C

Item 2 Raw Data - Benzoyllecgonine
Preparation concentration: 3,000 ng/mL

WebCode	List of Raw Data determinations (ng/mL)			
7XYAX3	2,513.6	2,510.4		2,512.0
87Q6BR	2,818.7			2,818.7
8ABREC	3,089.0			3,089.0
DYB8E8	3,141.0			3,141.0
MAWVZH	2,307.3	2,364.3		2,335.8
NM36JL	2,879.7			2,879.7
NYT8GK	2,124.0	2,172.0	2,271.0	2,189.0
PWJHRG	2,958.9	2,980.4		2,969.7
RA4GXA	2,678.0			2,678.0
URXWB6	2,513.3			2,513.3
UT6E8F	2,880.1	2,893.6		2,886.8

Statistical Analysis for Item 2 - Benzoyllecgonine			
Grand Mean	2,728.46	Number of Participants Included	11
Standard Deviation	309.09	Number of Participants Excluded	0
		Number of Participants without Raw Data or Data that was not reported in ng/mL	2

Reporting Procedures - Item 2

TABLE 2D - Item 2

WebCode	Quantitative Reporting Procedures
7XYAX3	The mean of duplicate/several determinations.
87Q6BR	A single determination.
8ABREC	A single determination.
CGXBEG	A single determination.
DYB8E8	A single determination.
MAWVZH	The mean of duplicate/several determinations.
NM36JL	A single determination.
NYT8GK	The mean of duplicate/several determinations.
PWJHRG	The mean of duplicate/several determinations.
RA4GXA	A single determination.
URXWB6	A single determination.
UT6E8F	The mean of duplicate/several determinations.

Response Summary for Item 2	Participants: 12
A single determination:	7 (58.3%)
The mean of duplicate/several determinations:	5 (41.67%)
Other:	0 (0.0%)

Methods of Analysis - Item 2

TABLE 2E - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
2MF4Z4	Immunoassay GC/MS	✓ ✓	✓	
2NRWYC	Immunoassay GC/MS	✓	✓	
2P776R	Immunoassay GC/MS	✓ ✓	✓	
2QFFV4	Immunoassay GC/MS LC/MS/MS GC/NPD	✓ ✓	✓ ✓	
3PFRW6	GC/MS		✓	
46AJDZ	Immunoassay GC/MS	✓ ✓	✓	
4M8U6A	Immunoassay GC/MS	✓ ✓	✓	
4XBYB6	Immunoassay LC/MS/MS	✓	✓	
63GAHP	LC/MS/MS	✓	✓	
64976X	Immunoassay GC/MS	✓ ✓	✓	
6YGYLP	Immunoassay LC/MS/MS	✓	✓	
79ZQRE	Immunoassay GC/MS	✓	✓	
7BTG3Y	LC/MS/MS	✓	✓	
7GEC43	LC-High Resolution Tandem Mass Spectrometry GC/MS	✓	✓	
7M4YPV	Immunoassay	✓		
7XYAX3	GC/MS LC/MS/MS	✓	✓	✓
86JP77	LC/MS/MS	✓	✓	✓
87Q6BR	Orbitrap-LC/MS GC/MS	✓	✓	✓

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
886ENX	Immunoassay GC/MS	✓	✓	
8ABREC	Immunoassay GC/MS	✓	✓	✓
8FHD4V	Immunoassay LC-HRMSMS LC/MS/MS	✓	✓ ✓	
8H4ALU	Immunoassay GC/MS	✓	✓	
8JDAMU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8R8KTJ	Immunoassay GC/MS	✓ ✓	✓	
8T6UNL	Immunoassay GC/MS	✓ ✓	✓	
8YTD9P	LC-TOFMS LC/MS	✓ ✓	✓ ✓	
92FADA	Immunoassay LC-QTOF	✓	✓	
937FTZ	LC/MS/MS	✓	✓	
96WGTV	Immunoassay GC/MS	✓ ✓	✓	
9FAZRH	Immunoassay GC/MS	✓ ✓	✓	
AFADWQ	Immunoassay LC/MS/MS GC/MS LC-HRMS/MS	✓	✓ ✓ ✓	
AHJ4LU	Immunoassay LC/MS/MS GC/MS LC-HR/MS/MS	✓ ✓ ✓	✓ ✓ ✓	
B24JZ8	Immunoassay LC/QTOF GC/MS	✓	✓ ✓	
BC6RXR	Immunoassay GC/MS	✓ ✓	✓	
BD33UV	Immunoassay GC/MS	✓ ✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
BEFPDV	LC/MS/MS	✓	✓	
BJKVKK	Immunoassay GC/MS	✓	✓	
BM4KBP	Immunoassay LC/MS/MS GC/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓	
C7FR4X	Immunoassay LC/MS/MS	✓	✓	
CB77NX	GC/MS LC/MS/MS	✓	✓	
CB79AW	Immunoassay LC MS QTOF GC/MS	✓	✓ ✓	
CGXBEG	LC/MS/MS	✓	✓	
CLTZ42	Immunoassay GC/MS	✓ ✓	✓	
CM3E3U	GC/MS		✓	
CQZNG3	Immunoassay GC/MS	✓ ✓	✓	
CTTFRN	High resolution accurate mass	✓	✓	
D2CH4F	Immunoassay GC/MS	✓	✓	
DD8ME2	Immunoassay GC/MS	✓ ✓	✓	
DFYNH4	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
DYB8E8	LC/MS/MS	✓	✓	✓
E34XTG	GC/MS		✓	
E429PK	Immunoassay	✓		
E8NLW3	Immunoassay LC-QTOF GC/MS	✓	✓ ✓	
E9U962	Immunoassay	✓		

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
ECVACP	Immunoassay	✓		
	LC/MS/MS		✓	
	LC-HRMS/MS		✓	
EGMGQR	Immunoassay	✓		
EK969J	GC/MS		✓	
EKPJFT	Immunoassay	✓		
FFPNAY	LC/MS/MS	✓	✓	
FNNZLV	Immunoassay	✓		
FYJ7JZ	Immunoassay	✓		
G3JUHM	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
G8CVHF	LC/MS/MS	✓	✓	
GA4VXY	LC/MS/MS	✓	✓	
GBXJGU	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
GC6ZBK	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
	LC-HRAMS		✓	
GKLEDP	Immunoassay			
GLDFDL	Immunoassay	✓		
	GC/MS	✓	✓	
GXPV4Q	Immunoassay	✓		
	LC/MS/MS		✓	
GY4APF	GC/MS		✓	
H6YQFB	Immunoassay	✓		
	GC/MS		✓	
HC2V8V	Immunoassay	✓		
HGF9FV	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
HMMDAK	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
J88Z89	Immunoassay	✓		
	GC/MS	✓	✓	
JAQDNP	LC/MS/MS			
JQLLWP	GC/MS	✓	✓	
	LC Q-TOF MS	✓	✓	
JWPE6Y	Immunoassay	✓		
	LC-QTOF		✓	
KAQE9N	Immunoassay	✓		
	GC/MS		✓	
KE2Q7N	Immunoassay	✓		
	GC/MS		✓	
KHZ22N	Immunoassay	✓		
KPK3JL	GC/MS	✓		
L6AP7P	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
L99Z3P	Immunoassay	✓		
	LC-QTOF-MS	✓		
	GC/MS		✓	
LEUZCB	Immunoassay	✓		
	GC/MS		✓	
LQAUPP	Immunoassay	✓		
LUCL6G	Immunoassay	✓		
	GC/MS	✓		
	LC/MS		✓	
	LC/MS/MS		✓	
LY6N9G	Immunoassay	✓		
	LC-HRMS/MS		✓	
	LC/MS/MS	✓	✓	
MAWVZH	Immunoassay	✓		
	LC/MS/MS		✓	✓
MCNWYE	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
MVNTYB	Immunoassay LCQTOF LC/MS/MS	✓ ✓	✓	
NE88WJ	LC/MS/MS	✓	✓	
NHAAHE	Immunoassay LC/MS/MS LC-HRMSMS GC/MS	✓ ✓ ✓	✓ ✓ ✓	
NM36JL	Immunoassay GC/MS	✓	✓	✓
NQ2KUU	Immunoassay LC-QTOF	✓	✓	
NQJC4E	Immunoassay LC-HRAMS LC/MS/MS GC/MS	✓	✓ ✓ ✓	
NYT8GK	LC/MS/MS		✓	✓
P6DKZJ	LC/MS LC/MS/MS	✓	✓	
PE49T2	Immunoassay GC/MS	✓ ✓	✓	
PELVRJ	LC/MS/MS LC-QTOF	✓	✓	
PGDWQE	Immunoassay GC/MS	✓ ✓	✓	
PWJHRG	Immunoassay GC/MS	✓	✓	✓
PYVXLG	GC/MS		✓	
Q6T78Z	Immunoassay GC/MS	✓ ✓	✓	
R9UM2A	LC-HRMS/MS	✓	✓	
RA4GXA	Immunoassay LC/MS/MS	✓	✓	✓
RA7737	GC/MS		✓	
RD3TT9	LC/MS/MS GC/MS	✓	✓	
T8B3QB	LC/MS/MS	✓	✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
TQPFM8	LC-HR-MS/MS GC/MS	✓	✓	
TUPL2D	Immunoassay LC/MS/MS	✓	✓	
UAV83E	Immunoassay LC/MS/MS	✓	✓	
UBRKP8	Immunoassay LC-HRMS/MS LC/MS/MS GC/MS	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	
UEQ79W	Immunoassay GC/MS	✓ ✓	✓	
UMNQJ6	LC-HRMSMS GC/MS	✓ ✓	✓	
URXWB6	Immunoassay LC/MS/MS	✓	✓	✓
UT6E8F	GC/MS Enzymatic Immunoassay	✓	✓	✓
UT84BC	GC/MS LC/MS/MS LC-MS/QTOF	✓ ✓ ✓	✓ ✓ ✓	
UVF9T8	LC/MS/MS GC/MS	✓ ✓	✓	
VMEEBY	LC/MS/MS QTOF uplc-ms	✓	✓	
VWQBJC	Immunoassay LC/MS/MS	✓	✓	
VXYRAV	Immunoassay GC/MS	✓ ✓	✓	
WRNW3Z	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
XKMZ2F	LC/MS/MS GC/MS	✓	✓	
Y2N7NF	Immunoassay	✓		
Y4EAF3	Immunoassay GC/MS	✓ ✓	✓	
YFKFA2	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	

TABLE 2E: Methods of Analysis - Item 2

WebCode	Method	Screening	Confirmatory	Quantitation
YKG92B	Immunoassay	✓		
YU3D9A	LC/MS/MS		✓	
	GC/MS		✓	
	Immunoassay	✓		
YYKDTW	Immunoassay	✓		
	LC/MS/MS		✓	
Z2LUM7	LC/MS/MS	✓	✓	
Z3FH62	LC-HRMS/MS	✓	✓	
Z6JJK6	Immunoassay	✓		
	GC/MS		✓	
ZJ2694	Immunoassay	✓		
	GC/MS	✓	✓	
ZKZ6DB	Immunoassay	✓		
	GC/MS		✓	

Response Summary for Item 2 - Methods of Analysis			Participants: 135
	Screening	Confirmatory	Quantitation
Immunoassay:	91	0	0
GC/MS:	38	76	5
LC/MS:	2	2	0
LC/MS/MS:	24	50	7
Other:	21	25	0

Additional Comments for Item 2

TABLE 2F

WebCode	Item Comments
2NRWYC	can see indications of ecgonine methyl ester and cocaine - not confirmed
3PFRW6	Theobromine also detected in Item 2.
63GAHP	Benzoyllecgonine-d8, LOD 10 ng/mL
6YGYLP	This sample screened presumptive positive on ELISA for amphetamine. Confirmation testing was done on LC/MS/MS and no drugs were detected. This sample screened presumptive positive on ELISA for benzoyllecgonine. The laboratory currently does not have a confirmation method for benzoyllecgonine.
7GEC43	Internal standards used: Mepivacaine and Benzoyllecgonine-d8
7M4YPV	cutoff 150 ng/mL. Creatinine Normal
86JP77	Panel includes only the following nine drugs: Cyclobenzaprine, Imipramine, MDPV, Meperidine, Mitragynine, Normeperidine, Phencyclidine, Quetiapine, Zolpidem.
886ENX	IRMs used in this item include phenyltoloxamine and heptabarbital.
8ABREC	Benzoyllecgonine Internal Standard: d8-Benzoyllecgoine, LOD/LLOQ: 25 ng/mL, HLOQ: 1000ng/mL
8FHD4V	Benzoyllecgonine Internal standard - mepivacaine LOD = 31 mcg/L
8YTD9P	Note: the naturally occurring phenethylamine was also detected in the sample.
AFADWQ	Internal Standard-Mepivacaine/Nalorphine, Mephobarbital, mepivacaine
BD33UV	Internal standards used in GC/MS were Hexobarbital and Phenyltoloxamine. ELISA Screen was positive for MDMA/Methamphetamine. These drugs were then found to screen negative on GC/MS.
BJKVKK	Phenyltoloxamine and Hexobarbital internal reference materials used for qualitative acid/base extraction. Sample also contained unconfirmed benzoyllecgonine and unconfirmed caffeine, identified by GC/MS but not confirmed/reported.
BM4KBP	Internal standard: mepivacaine
CLTZ42	Cannabinoids were positive by immunoassay screen (cut off THCA 10 ng/mL) but were not detected by confirmatory method (LOD THC - 1.0ng/mL, THCA - 5.0 ng/mL).
CM3E3U	Internal Standard: SKF-525A
CQZNG3	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards.
CTTFRN	internal standard = mepivacaine
D2CH4F	Confirmatory ISTD: NPA and SKF our current GC/MS method does not extract BE and our LC/MS-MS method that is used for cocaine/BE is only validated for blood.
DD8ME2	Hexobarbital, n-Propylamphetamine, and Mepivacaine used as internal standards.
E34XTG	Internal standard: flurazepam Sample preparation: L/L extraction. The final extract is derivatized with BSTFA, and analyzed by GC-MS. LOD benzoyllecgonine: 100 ng/mL.
E9U962	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
ECVACP	Internal Standard: Mepivacaine/Mephobarbital, Mepivacaine

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
EGMGQR	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
FFPNAY	Benzoyllecgonine-d8; LOD 10ng/ml
FNNZLV	Cutoff: 150 ng/mL. Creatinine Normal
FYJ7JZ	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
G3JUHM	Internal Standards - mepivacaine & nalorphine
GA4VXY	Benzoyllecgonine: ISTD Benzoyllecgonine-d8; LOD: 10ng/mL
GBXJGU	Internal Standard for LC-QTOF-MS and GC-MS: Mepivacaine
H6YQFB	Internal Standard: Benzoyllecgonine-D3. Limit of Detection: 50 ng/mL
HC2V8V	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
JQLLWP	Mephentermine, acepromazine, brucine ISTD for GCMS Screen. D3 Benzoyllecgonine ISTD for QTOF screen
KAQE9N	Codeine D3 / Diazepam D5
KPK3JL	Liquid-Liquid Extraction followed by Derivatization using BSTFA was carried out. Benzoyllecgonine detected in Acidic and basic extract by GCMS analysis
L6AP7P	Internal Standard: Mepivacaine. Lidocaine indicated in LC-QTOF-MS but below LOQ. Cocaine not confirmed
L99Z3P	Internal Standards - Mepivacaine, Nalorphine
LEUZCB	The Methods used were immunoassay an GC/MS
LQAUPP	Cutoff for Cocaine is 150 ng/mL. Creatinine is normal.
LUCL6G	Mepivacaine was used as internal standard for all testing procedures excluding immunoassay.
LY6N9G	Internal Standard: mepivacaine for both LC/MS/MS and LC-HRMS/MS
NM36JL	Benzoyllecgonine was reported as a qualitative result, using a semi-quantitative method as per State Regulation BE-D3 internal standard SPE extraction SIM semi-quantitative GC/MS method
NQJC4E	internal standard= mepivacaine
P6DKZJ	LOD: 10 ng/mL After undergoing significant concentration and extraction, a relatively small amount (approximately less than 1.25 ng/mL) of cocaine was detected in the urine sample. However, as this is below the detection limit of our laboratory's SOP, it was interpreted as a negative result.

TABLE 2F: Additional Comments for Item 2

WebCode	Item Comments
PWJHRG	The cocaine testing panel includes Cocaine and BZE. Internal standards used: BZE-D3 and Cocaine-D3. 6-point calibration curve (ng/mL): 50, 100, 200, 500, 1000, 2000. The urine sample was diluted (0.4mL of sample + 0.6mL of deionised water) so that the concentration would fall within the calibration curve.
R9UM2A	Artifacts found: acetaminophen, caffeine, lidocaine, cocaine
RA4GXA	Benzoyllecgonine results are above our upper limit of quantitation (1000 ng/mL)
RA7737	Internal standard: Flurazepam
RD3TT9	there was a small response (below 3.5 ng/mL cutoff) for cocaine on the LCMSMS screen.
TQPFM8	Mepivacaine, benzoyllecgonine-d8
UMNQJ6	Internal standards: Mepivacaine/Mephobarbital (HRMS) and Mepivacaine/Nalophrine (GCMS)
URXWB6	Benzoyllecgonine results are above our upper limit of quantitation (1000 ng/mL)
VWQBJC	Immunoassay LOD: 50 ng/mL LC/MS/MS. Internal Standard: Benzoyllecgonine D8 LC/MS/MS LOD: 10 ng/mL
Y2N7NF	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
YFKFA2	Mepivacaine used as internal standard.
YKG92B	Cutoff: 150 ng/mL, creatinine normal
YU3D9A	The cut-off value of benzoyllecgonine is 60 ng/mL for LC/MS/MS. The cut-off value of benzoyllecgonine is 60 ng/mL for GC/MS.
YYKDTW	This sample screened presumptive positive for amphetamine. Confirmatory testing was performed for this class and no drugs were detected. This sample screened presumptive positive for benzoyllecgonine, however our lab does not currently have a confirmation method for this class so these results were not confirmed.
Z3FH62	mepivacaine internal standard
Z6JJK6	hexobarbital internal reference material. phenyltoloxamine internal reference material.
ZJ2694	The current quantitative method for cocaine/benzoyllecgonine is off-line and is being validated at this time.

Screening Results - Item 3

TABLE 3A

Item Scenario:

A 40 year old male was subject to a routine urine drug test for his cancer treatment.

Item Contents and Preparation Concentration: Morphine 5,000 ng/mL
Hydromorphone 50 ng/mL

WebCode	Screening Results
2MF4Z4	Opiate - Codeine, Morphine, Hydromorphone
2NRWYC	opiates, oxycodone
2P776R	morphine
2QFFV4	Opiates
46AJDZ	Opiate Class Morphine Hydromorphone
4M8U6A	Class Opiates, Opioids,
4XBYB6	Morphine, Hydromorphone
63GAHP	Hydromorphone Morphine
64976X	Opiates
6YGYLP	Opiates, Oxycodone/Oxymorphone, and Amphetamine
79ZQRE	oxycodone, opiates
7BTG3Y	6-monoacetylmorphine Hydromorphone Morphine
7GEC43	1). Hydromorphone 2). Morphine
7M4YPV	Opiates
7XYAX3	Morphine
86JP77	No drugs detected utilizing screening methods.
87Q6BR	Morphine
886ENX	Opiate General
8ABREC	Opiates
8FHD4V	Certain Opioids Class
8H4ALU	Opiates Oxycodone

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
8JDAMU	Opiates
8R8KTJ	Opiate(s)
8T6UNL	opiates
8YTD9P	morphine
92FADA	Opiates
937FTZ	codeine, morphine, hydromorphone
96WGTV	Opiates
9FAZRH	Morphine
AFADWQ	Opioids
AHJ4LU	opioids
B24JZ8	Opiates
BC6RXR	opiate class , morphine
BD33UV	MDMA-Methamphetamine, Opiates(General), Opiates(Synthetic), Clomethiazole Metabolite, Caffeine
BEFPDV	Hydromorphone Morphine
BJKVKK	Opiates (General) Opiates (Synthetic)
BM4KBP	Class: opioids Drugs: morphine and hydromorphone
C7FR4X	opiates
CB77NX	Morphine Morphine-N-oxide
CB79AW	OPIATE
CGXBEG	morphine
CLTZ42	Cannabinoids, opiates, and morphine.
CQZNG3	ELISA Fentanyl, ELISA Opiates
CTTFRN	morphine hydromorphone
D2CH4F	Opiates Opioids

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
DD8ME2	Opiates (ELISA) Oxycodone/Oxymorphone (ELISA)
DFYNH4	Opiates
DYB8E8	Morphine, hydromorphone
E429PK	Opiate
E8NLW3	Opiates
E9U962	Opiates- cutoff (300 ng/mL)
ECVACP	Certain Opioids Morphine Hydromorphone
EGMGQR	Opiates- cutoff (300 ng/mL)
EKPJFT	OPIATES
FFPNAY	Hydromorphone, Morphine
FNNZLV	Opiates
FYJ7JZ	Opiates- cutoff (300 ng/mL)
G3JUHM	opioids, morphine, hydromorphone
G8CVHF	Morphine Hydromorphone
GA4VXY	Hydromorphone Morphine
GC6ZBK	opioids
GKLEDP	Opiaceos
GLDFDL	Opiates, morphine
GXPV4Q	Opiates (OPIAT), Generic Opioids (OPDS)
H6YQFB	Opiates
HC2V8V	Opiates- cutoff (300 ng/mL)
HGF9FV	Randox Investigator Opiates Assay Randox Investigator Generic Opioids Assay
HMMDAK	Opiates
J88Z89	Morphine

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
JAQDNP	Morphine
JQLLWP	Morphine Codeine Hydromorphone
JWPE6Y	Opiates
KAQE9N	Opiates
KE2Q7N	Opiate - Opioid
KHZ22N	OPIATES
KPK3JL	Morphine
L99Z3P	Hydromorphone, Morphine
LEUZCB	The immunoassay result was positive for opioids
LQAUPP	Opiates
LUCL6G	Opioids
LY6N9G	certain opioids (Immunoassay)
MAWVZH	Opiates
MCNWYE	Opiate Class/Morphine
MVNTYB	opiate group class in Immunoassay screening Morphine in LCQTOF screening
NE88WJ	morphine hydromorphone
NHAAHE	morphine; codeine
NM36JL	Opiates
NQ2KUU	Opiates
NQJC4E	certain opioids
NYT8GK	Morphine and Hydromorphone
P6DKZJ	Morphine, Morphine-N-oxide
PE49T2	Morphine
PELVRJ	morphine hydromorphone
PGDWQE	Opiates (class), Possible Codeine, Morphine.

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
PWJHRG	Opiates
PYVXLG	opiates
Q6T78Z	Opiate
R9UM2A	morphine, hydromorphone
RA4GXA	Opiates
RD3TT9	morphine hydromorphone
T8B3QB	Hydromorphone Morphine
TQPFM8	Morphine, hydromorphone
TUPL2D	Opiates (OPIAT & OPDS)
UAV83E	opiates
UBRKP8	opioids
UEQ79W	opiate/morphine
UMNQJ6	morphine hydromorphone
URXWB6	Opiates Fentanyl
UT6E8F	Opiates
UT84BC	Morphine
UVF9T8	Hydromorphone; Morphine
VJF3EY	morphine hydromorphone
VMEEBY	morphine hydromorphone
VWQBJC	Opiates
VXYRAV	Opiate
WRNW3Z	MORPHINE AND HYDROMORPHONE WAS DETECTED
XKMZ2F	Hydromorphone, morphine
Y2N7NF	Opiates- cutoff (300 ng/mL)

TABLE 3A: Screening Results - Item 3

WebCode	Screening Results
Y4EAF3	Opiate
YFKFA2	opioids class = morphine and hydromorphone
YKG92B	Opiate
YU3D9A	Morphine and Hydromorphone
YYKDTW	opiates, oxycodone/oxymorphone, amphetamine
Z2LUM7	Hydromorphone Morphine
Z3FH62	morphine, hydromorphone
Z6JJK6	opiates synthetic opiates
ZJ2694	Opiates
ZKZ6DB	Opiates (MOP)

Screening Response Summary for Item 3	Participants: 128
Opioids/Opiates:	73
Morphine:	54
Hydromorphone:	35
Other Drugs Detected:	21
No Drugs Detected	1
Utilizing Screening Methods:	

Total number of screening responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Confirmatory Results - Item 3

TABLE 3B

Item Scenario:

A 40 year old male was subject to a routine urine drug test for his cancer treatment.

Item Contents and Preparation Concentration: Morphine 5,000 ng/mL
Hydromorphone 50 ng/mL

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
2MF4Z4	Morphine	✓			
	Hydromorphone	✓			
	Codeine	✓			
2NRWYC	morphine	✓			
2P776R	morphine	✓			
2QFFV4	Morphine	✓			
	Hydromorphone	✓			
3PFRW6	Morphine	✓			
46AJDZ	Morphine	✓			
	Hydromorphone	✓			
4M8U6A	Morphine	✓			
	Hydromorphone	✓			
4XBYB6	Morphine	✓			
	Hydromorphone	✓			
63GAHP	Morphine	✓			
	Hydromorphone	✓			
64976X	Morphine	✓			
6YGYLP	No drugs/metabolites detected utilizing confirmatory methods.				
79ZQRE	morphine	✓			
	hydromorphone	✓			
7BTG3Y	Morphine	✓			
	Hydromorphone	✓			
7GEC43	Morphine	✓			
	Hydromorphone	✓			
7XYAX3	Morphine		3075		ng/ml
86JP77	No drugs/metabolites detected utilizing confirmatory methods.				
87Q6BR	Morphine		4515		ng/ml
886ENX	Morphine	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
8ABREC	Morphine		5211	1042	ng/mL
	Hydromorphone		49	10	ng/mL
8FHD4V	morphine	✓			
	hydromorphone	✓			
8H4ALU	Morphine	✓			
8JDAMU	Morphine	✓			
	Hydromorphone	✓			
8R8KTJ	Morphine	✓			
8T6UNL	morphine	✓			
8YTD9P	morphine	✓			
92FADA	Morphine	✓			
937FTZ	morphine	✓			
	hydromorphone	✓			
	codeine	✓			
96WGTV	Morphine	✓			
9FAZRH	Morphine	✓			
AFADWQ	Morphine	✓			
	Hydromorphone	✓			
AHJ4LU	morphine	✓			
	hydromorphone	✓			
B24JZ8	morphine	✓			
BC6RXR	Morphine	✓			
BD33UV	Morphine	✓			
BEFPDV	Morphine	✓			
	Hydromorphone	✓			
BJKVKK	Morphine				
BM4KBP	morphine	✓			
	hydromorphone	✓			
C7FR4X	morphine	✓			
	hydromorphone	✓			
CB77NX	Morphine	✓			
	Morphine-N-oxide	✓			
CB79AW	MORPHINE	✓			
CGXBEG	morphine		6,0	30	mg/l

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?				
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty Units
CLTZ42	Morphine	✓		
	Hydromorphone	✓		
CM3E3U	No drugs/metabolites detected utilizing confirmatory methods.			
CQZNG3	Morphine	✓		
	Hydromorphone	✓		
CTTFRN	morphine	✓		
	hydromorphone	✓		
D2CH4F	No drugs/metabolites detected utilizing confirmatory methods.			
DD8ME2	Morphine	✓		
	Hydromorphone	✓		
DFYNH4	Morphine	✓		
DYB8E8	Morphine	✓		
	Hydromorphone	✓		
E34XTG	Morphine	✓		
E8NLW3	Morphine	✓		
ECVACP	Morphine	✓		
	Hydromorphone	✓		
EK969J	MORPHINE	✓		
FFPNAY	Morphine	✓		
	Hydromorphone	✓		
G3JUHM	morphine	✓		
	hydromorphone	✓		
G8CVHF	Morphine	✓		
	Hydromorphone	✓		
GA4VXY	Morphine	✓		
	Hydromorphone	✓		
GC6ZBK	morphine			
	hydromorphone	✓		
GLDFDL	Morphine	✓		
GXPV4Q	Morphine	✓		
	Hydromorphone	✓		
GY4APF	MORPHINE	✓		

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
H6YQFB	Morphine	✓			
	Hydromorphone	✓			
HGF9FV	MORPHINE	✓			
	HYDROMORPHONE	✓			
HMMDAK	Morphine	✓			
	Hydromorphone	✓			
J88Z89	Morphine	✓			
JAQDNP	Morphine		4780		ng/ml
JQLLWP	Morphine		4600	20%	ug/L
	Hydromorphone	✓			
	Codeine		Detected < 30	20%	ug/L
JWPE6Y	Morphine	✓			
KAQE9N	Morphine	✓			
KE2Q7N	Morphine	✓			
	Hydromorphone	✓			
L99Z3P	Morphine	✓			
	Hydromorphone	✓			
LEUZCB	Morphine	✓			
LUCL6G	morphine	✓			
	hydromorphone	✓			
LY6N9G	morphine	✓			
	hydromorphone	✓			
MAWVZH	Morphine		4782.90		ng/ml
MCNWYE	Morphine	✓			
MVNTYB	Morphine	✓			
	Hydromorphone	✓			
NE88WJ	morphine	✓			
	hydromorphone	✓			
NHAAHE	morphine	✓			
	hydromorphone	✓			
NM36JL	Morphine	✓			
NQ2KUU	Morpine	✓			
NQJC4E	morphine	✓			
	hydromorphone	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?					
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
NYT8GK	Morphine		2778		ng/ml
	Hydromorphone		31		ng/ml
P6DKZJ	Morphine	✓			
	Morphine-N-oxide	✓			
PE49T2	Morphine	✓			
PELVRJ	morphine	✓			
	hydromorphone	✓			
PGDWQE	Morphine	✓			
PWJHRG	Morphine		5611.40		ng/mL
PYVXLG	morphine 2TMS	✓			
	hydromorphone 2TMS	✓			
Q6T78Z	Morphine	✓			
R9UM2A	morphine	✓			
	hydromorphone	✓			
RA4GXA	Morphine	✓			
RA7737	Morphine	✓			
	Caffeine	✓			
RD3TT9	morphine	✓			
T8B3QB	Morphine	✓			
	Hydromorphone	✓			
TQPFM8	Morphine	✓			
	Hydromorphone	✓			
TUPL2D	Morphine	✓			
	Hydromorphone	✓			
UAV83E	morphine	✓			
	hydromorphone	✓			
UBRKP8	morphine	✓			
	hydromorphone	✓			
UEQ79W	morphine	✓			
UMNQJ6	morphine	✓			
	hydromorphone	✓			
URXWB6	Morphine	✓			
UT6E8F	Morphine		5662.56	3.93	ng/mL
UT84BC	Morphine	✓			

TABLE 3B: Confirmatory Results - Item 3

What drugs/metabolites were detected in Item 3?				
WebCode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty Units
UVF9T8	Morphine	✓		
	Hydromorphone	✓		
VJF3EY	morphine	✓		
	Hydromorphone	✓		
VMEEBY	morphine	✓		
	hydromorphone	✓		
VWQBJC	Morphine	✓		
	Hydromorphone	✓		
VXYRAV	Morphine	✓		
WRNW3Z	MORPHINE	✓		
	Hydromorphone	✓		
XKMZ2F	Morphine	✓		
	Hydromorphone	✓		
Y4EAF3	Morphine	✓		
	Hydromorphone	✓		
YFKFA2	morphine	✓		
	hydromorphone	✓		
YU3D9A	Morphine	✓		
	Hydromorphone	✓		
YYKDTW	No drugs/metabolites detected utilizing confirmatory methods.			
Z2LUM7	Morphine	✓		
	Hydromorphone	✓		
Z3FH62	morphine	✓		
	hydromorphone	✓		
Z6JJK6	morphine	✓		
ZKZ6DB	Morphine	✓		
	Hydromorphone	✓		

Confirmatory Response Summary for Item 3		Participants: 119
Morphine:	114	
Hydromorphone:	64	
Other Identified Drugs/Metabolites:	4	
No Drugs/Metabolites Detected Utilizing Confirmatory Methods:	5	

Total number of confirmatory responses provided may be more than the number of participants due to multiple drugs/metabolites being reported.

Raw Data - Item 3

TABLE 3C

Item 3 Raw Data - Morphine
Preparation concentration: 5,000 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		
7XYAX3	3,028.0	3,177.0	3,032.0
87Q6BR	4,515.3		
8ABREC	5,211.0		
JQLLWP	4,600.0		
MAWVZH	4,829.6	4,736.1	
NYT8GK	2,772.0	2,795.0	2,768.0
PWJHRG	5,616.7	5,606.0	
UT6E8F	5,637.2	5,687.9	

Statistical Analysis for Item 3 - Morphine

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

TABLE 3C: Raw Data - Item 3
Item 3 Raw Data - Hydromorphone
Preparation concentration: 50 ng/mL

WebCode	List of Raw Data determinations (ng/mL)		
8ABREC	49.000		
NYT8GK	32.000	31.000	31.000

Statistical Analysis for Item 3 - Hydromorphone

Please note: Statistical analysis has not been provided due to the low number of raw data responses.

Reporting Procedures - Item 3

TABLE 3D - Item 3

WebCode	Quantitative Reporting Procedures
7XYAX3	The mean of duplicate/several determinations.
87Q6BR	A single determination.
8ABREC	A single determination.
CGXBEG	A single determination.
JQLLWP	The mean of duplicate/several determinations.
MAWVZH	The mean of duplicate/several determinations.
NYT8GK	The mean of duplicate/several determinations.
PWJHRG	The mean of duplicate/several determinations.
UT6E8F	The mean of duplicate/several determinations.

Response Summary for Item 3	Participants: 9
A single determination:	3 (33.3%)
The mean of duplicate/several determinations:	6 (66.67%)
Other:	0 (0.0%)

Methods of Analysis - Item 3

TABLE 3E - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
2MF4Z4	Immunoassay GC/MS	✓ ✓	✓	
2NRWYC	Immunoassay GC/MS	✓	✓	
2P776R	Immunoassay GC/MS	✓ ✓	✓	
2QFFV4	Immunoassay GC/MS GC/NPD LC/MS/MS	✓ ✓	✓ ✓	
3PFRW6	GC/MS		✓	
46AJDZ	Immunoassay GC/MS	✓ ✓	✓	
4M8U6A	Immunoassay GC/MS	✓ ✓	✓	
4XBYB6	Immunoassay LC-QTOF GC/MS LC/MS/MS	✓ ✓	✓ ✓	
63GAHP	LC/MS/MS	✓	✓	
64976X	Immunoassay GC/MS	✓ ✓	✓	
6YGYLP	Immunoassay LC/MS/MS	✓	✓	
79ZQRE	Immunoassay GC/MS	✓	✓	
7BTG3Y	LC/MS/MS	✓	✓	
7GEC43	LC-High Resolution Tandem Mass Spectrometry	✓	✓	
7M4YPV	Immunoassay	✓		
7XYAX3	GC/MS LC/MS/MS	✓	✓	✓
86JP77	LC/MS/MS	✓	✓	✓
87Q6BR	Immunoassay GC/MS	✓	✓	✓

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
886ENX	Immunoassay GC/MS	✓	✓	
8ABREC	Immunoassay LC/MS/MS	✓	✓	✓
8FHD4V	Immunoassay LC/MS/MS LC-HRMSMS	✓	✓ ✓	
8H4ALU	Immunoassay LC/MS/MS	✓	✓	
8JDAMU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8R8KTJ	Immunoassay GC/MS	✓ ✓	✓	
8T6UNL	Immunoassay GC/MS	✓ ✓	✓	
8YTD9P	LC-TOFMS LC/MS	✓ ✓	✓ ✓	
92FADA	Immunoassay LC-QTOF	✓	✓	
937FTZ	LC/MS/MS	✓	✓	
96WGTV	Immunoassay GC/MS	✓ ✓	✓	
9FAZRH	Immunoassay GC/MS	✓ ✓	✓	
AFADWQ	Immunoassay GC/MS LC/MS/MS LC-HRMS/MS	✓	✓ ✓ ✓	
AHJ4LU	Immunoassay LC/MS/MS GC/MS LC-HR/MS/MS	✓ ✓ ✓	✓ ✓ ✓	
B24JZ8	Immunoassay LC/QTOF	✓	✓	
BC6RXR	Immunoassay GC/MS	✓ ✓	✓	
BD33UV	Immunoassay GC/MS	✓ ✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
BEFPDV	LC/MS/MS	✓	✓	
BJKVKK	Immunoassay GC/MS	✓	✓	
BM4KBP	Immunoassay GC/MS LC/MS/MS LC-HRMS/MS	✓ ✓ ✓	✓ ✓ ✓	
C7FR4X	Immunoassay LC/MS/MS	✓	✓	
CB77NX	GC/MS LC/MS/MS	✓	✓	
CB79AW	Immunoassay LC MS QTOF GC/MS	✓	✓ ✓	
CGXBEG	LC/MS/MS	✓	✓	
CLTZ42	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	
CM3E3U	GC/MS		✓	
CQZNG3	Immunoassay GC/MS	✓ ✓	✓	
CTTFRN	High resolution accurate mass	✓	✓	
D2CH4F	Immunoassay GC/MS	✓	✓	
DD8ME2	Immunoassay GC/MS	✓ ✓	✓	
DFYNH4	Immunoassay GC/MS LC-QTOF	✓	✓	
DYB8E8	LC/MS/MS	✓	✓	
E34XTG	GC/MS		✓	
E429PK	Immunoassay	✓		
E8NLW3	Immunoassay LC-QTOF	✓	✓	
E9U962	Immunoassay	✓		

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
ECVACP	Immunoassay	✓		
	LC/MS/MS		✓	
	LC-HRMS/MS		✓	
EGMGQR	Immunoassay	✓		
EK969J	GC/MS		✓	
EKPJFT	Immunoassay	✓		
FFPNAY	LC/MS/MS	✓	✓	
FNNZLV	Immunoassay	✓		
FYJ7JZ	Immunoassay	✓		
G3JUHM	Immunoassay	✓		
	GC/MS	✓	✓	
	LC/MS	✓	✓	
	LC-HRMS/MS	✓	✓	
G8CVHF	LC/MS/MS	✓	✓	
GA4VXY	LC/MS/MS	✓	✓	
GC6ZBK	Immunoassay	✓		
	GC/MS		✓	
	LC/MS/MS		✓	
	LC-HRAMS		✓	
GKLEDP	Immunoassay			
GLDFDL	Immunoassay	✓		
	GC/MS	✓	✓	
GXPV4Q	Immunoassay	✓		
	LC/MS/MS		✓	
GY4APF	GC/MS		✓	
H6YQFB	Immunoassay	✓		
	GC/MS		✓	
HC2V8V	Immunoassay	✓		
HGF9FV	Immunoassay	✓		
	GC/MS	✓	✓	
HMMDAK	Immunoassay	✓		
	LC/MS/MS		✓	
	GC/MS		✓	
J88Z89	Immunoassay	✓		
	GC/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
JAQDNP	LC/MS/MS			
JQLLWP	LC Q-TOF MS LC/MS/MS	✓	✓	
JWPE6Y	Immunoassay LC-QTOF	✓	✓	
KAQE9N	Immunoassay GC/MS	✓	✓	
KE2Q7N	Immunoassay GC/MS	✓	✓	
KHZ22N	Immunoassay	✓		
KPK3JL	GC/MS	✓		
L99Z3P	Immunoassay LC-QTOF-MS GC/MS	✓ ✓ ✓	✓	
LEUZCB	Immunoassay GC/MS	✓	✓	
LQAUPP	Immunoassay	✓		
LUCL6G	Immunoassay LC/MS/MS GC/MS LC/MS	✓ ✓ ✓	✓ ✓	
LY6N9G	Immunoassay LC-HRMS/MS	✓	✓	
MAWVZH	Immunoassay LC/MS/MS	✓	✓	✓
MCNWYE	Immunoassay GC/MS	✓ ✓	✓	
MVNTYB	Immunoassay LCQTOF LC/MS/MS	✓ ✓	✓	
NE88WJ	LC/MS/MS	✓	✓	
NHAAHE	Immunoassay GC/MS LC/MS/MS LC-HRMSMS	✓ ✓ ✓	✓ ✓ ✓	
NM36JL	Immunoassay GC/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
NQ2KUU	Immunoassay LC-QTOF	✓	✓	
NQJC4E	Immunoassay LC-HRAMS GC/MS LC/MS/MS	✓	✓ ✓ ✓	
NYT8GK	LC/MS/MS		✓	✓
P6DKZJ	LC/MS LC/MS/MS	✓	✓	
PE49T2	Immunoassay GC/MS	✓ ✓	✓	
PELVRJ	GC/MS LC/MS/MS	✓	✓	
PGDWQE	Immunoassay GC/MS	✓ ✓	✓	
PWJHRG	Immunoassay GC/MS	✓	✓	✓
PYVXLG	GC/MS		✓	
Q6T78Z	Immunoassay GC/MS	✓ ✓	✓	
R9UM2A	LC-HRAMS/MS	✓	✓	
RA4GXA	Immunoassay LC/MS/MS	✓	✓	
RA7737	GC/MS		✓	
RD3TT9	LC/MS/MS GC/MS	✓	✓	
T8B3QB	LC/MS/MS	✓	✓	
TQPFM8	LC-HRAMS/MS GC/MS	✓	✓ ✓	
TUPL2D	Immunoassay LC/MS/MS	✓	✓	
UAV83E	Immunoassay LC/MS/MS	✓	✓	
UBRKP8	Immunoassay LC/MS/MS LC-HRAMS/MS GC/MS	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
UEQ79W	Immunoassay GC/MS	✓ ✓	✓	
UMNQJ6	LC-HRMSMS GC/MS	✓ ✓	✓	
URXWB6	Immunoassay LC/MS/MS	✓	✓	
UT6E8F	GC/MS Enzymatic Immunoassay	✓	✓	✓
UT84BC	GC/MS LC/MS/MS LC-MS/QTOF	✓ ✓ ✓	✓ ✓ ✓	
UVF9T8	LC/MS/MS GC/MS	✓ ✓	✓	
VJF3EY	GC/MS LC/MS/MS	✓	✓	
VMEEBY	LC/MS/MS QTOF uplc-ms Immunoassay	✓ ✓	✓	
VWQBJC	Immunoassay LC/MS/MS	✓	✓	
VXYRAV	Immunoassay GC/MS	✓ ✓	✓	
WRNW3Z	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
XKMZ2F	LC/MS/MS GC/MS	✓	✓	
Y2N7NF	Immunoassay	✓		
Y4EAF3	Immunoassay GC/MS	✓ ✓	✓	
YFKFA2	Immunoassay LC/MS/MS GC/MS	✓ ✓	✓ ✓	
YKG92B	Immunoassay	✓		
YU3D9A	Immunoassay LC/MS/MS GC/MS	✓	✓ ✓	
YYKDTW	Immunoassay LC/MS/MS	✓	✓	

TABLE 3E: Methods of Analysis - Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
Z2LUM7	LC/MS/MS	✓	✓	
Z3FH62	LC-HRMS/MS	✓	✓	
Z6JJK6	Immunoassay GC/MS	✓	✓	
ZJ2694	Immunoassay	✓		
ZKZ6DB	Immunoassay GC/MS	✓	✓	

Response Summary for Item 3 - Methods of Analysis		Participants: 134		
	Screening	Confirmatory	Quantitation	
Immunoassay:	91	0	0	
GC/MS:	39	68	3	
LC/MS:	3	3	0	
LC/MS/MS:	22	53	5	
Other:	18	25	0	

Additional Comments for Item 3

TABLE 3F

WebCode	Item Comments
2MF4Z4	Nalorphine used as Internal Standard for Opiate Extraction
3PFRW6	Caffeine was also detected in Item 3.
46AJDZ	Nalorphine was used as an internal standard.
63GAHP	Hydromorphone-d6, LOD 5 ng/mL Morphine-d6, LOD 5 ng/mL
64976X	Nalorphine used as internal standard for opiate confirmation.
6YGYLP	This sample screened presumptive positive on ELISA for amphetamine. Confirmation testing was done on LC/MS/MS and no drugs were detected. This sample screened presumptive positive on ELISA for opiates and oxycodone/oxymorphone. The laboratory currently does not have a confirmation method for these drugs.
7GEC43	Internal standard used: Mepivacaine
7M4YPV	Cutoff 300 ng/mL. Creatinine Normal
86JP77	Panel includes only the following nine drugs: Cyclobenzaprine, Imipramine, MDPV, Meperidine, Mitragynine, Normeperidine, Phencyclidine, Quetiapine, Zolpidem.
886ENX	Normorphine, was found, but not confirmed. IRMs used in this item include phenyltoloxamine and heptabarbital.
8ABREC	Hydromorphone Internal Standard: d6-Oxycodone LOD/LLOQ: 10 ng/mL HLOQ: 1000ng/mL. Morphine Internal Standard: d6-Morphine LOD/LLOQ: 10 ng/mL HLOQ: 1000ng/mL
8FHD4V	Morphine Internal standard - Mepivacaine LOD - 3.1 mcg/L. Hydromorphone Internal standard - Mepivacaine LOD - 3.1 mcg/L
8YTD9P	Note: the naturally occurring phenethylamine was also detected in the sample.
9FAZRH	Nalorphine was used as an internal standard.
AFADWQ	Mepivacaine/Nalorphine, mephobarbital, mepivacaine
BD33UV	Internal standards used in GC/MS were Hexobarbital and Phenyltoloxamine. ELISA Screen was positive for MDMA/Methamphetamine and Opiates(Synthetic). These drugs were then found to screen negative on GC/MS.
BJKVKK	Phenyltoloxamine and Hexobarbital internal reference materials used for qualitative acid/base extraction. Sample was enzyme hydrolyzed utilizing beta glucuronidase and morphine-3-glucuronide was used as a hydrolysis positive control. Sample also contained unconfirmed caffeine, identified by GC/MS but not confirmed/reported. No synthetic opiates (oxycodone, hydrocodone or dihydrocodeine) were detected via GC/MS.
BM4KBP	internal standards: mepivacaine and nalorphine
CLTZ42	Cannabinoids were positive by immunoassay screen (cut off THCA 10 ng/mL) but were not detected by confirmatory method (LOD THC - 1.0ng/mL, THCA - 5.0 ng/mL).
CM3E3U	Internal Standard: SKF-525A
CQZNG3	N-Propylamphetamine, Mepivacaine, and Hexobarbital were used as Internal Standards. Fentanyl screened positive via ELISA, but was not detected via GC/MS. 3-Acetylmorphine was identified via library match on two separate GC/MS instruments, but it is not contained within current scope and therefore not confirmed or reported.
CTTFRN	internal standard = mepivacaine

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
D2CH4F	Confirmatory ISTD: NPA and SKF our current GC/MS method does not extract all opioids and opiates and our LC/MS-MS method that is used for opioids/opiates is only validated for blood.
DD8ME2	Hexobarbital, n-Propylamphetamine, and Mepivacaine used as internal standards. Oxycodone/Oxymorphone screened positive via ELISA, but were not detected via GC/MS. Library search identified 3-Acetylmorphine via separate extractions on different GC/MS instruments; this analyte is not contained within current scope and was therefore not confirmed or reported.
E34XTG	Internal Standard: Flurazepam. Sample preparation: L/L extraction. The final extract is derevativized with BSTFA and analyzed by GC-MS. LOD morphine: 30 ng/mL
E9U962	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
ECVACP	Internal Standards: Mepivacaine/Mephobarbital, Mepivacaine
EGMGQR	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
FFPNAY	Hydromorphone-d6; LOD 5ng/ml. Morphine-d6; LOD 5ng/ml
FNNZLV	Cutoff: 300 ng/mL. Creatinine Normal
FYJ7JZ	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
G3JUHM	Internal Standards - mepivacaine & nalorphine
GA4VXY	Hydromorphone: ISTD Hydromorphone-d6; LOD 5ng/mL. Morphine: ISTD Morphine-d6; LOD 5ng/mL
GBXJGU	Item 3 was not analyzed.
GLDFDL	Nalorphine was used as an internal standard for GCMS opiate confirmation.
H6YQFB	Internal Standards: Hydromorphone-D6 (Hydromorphone), Morphine-D6 (Morphine). Limit of Detection: 50 ng/mL
HC2V8V	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
JQLLWP	D3 Morphine for morphine confirmatory analysis, D3 Codeine for codeine confirmatory analysis, D3 Hydromorphone for qualitative analysis. Morphine/Codeine results were not analysed in full accordance with [Country Regulations]. LOD for morphine/codeine results determined to be 10 ng. The limit of quantitation is dependent on calibration and lowest standard.
KAQE9N	Codeine D3 / Diazepam D5
KPK3JL	Liquid-Liquid Extraction followed by Derivatization using BSTFA was carried out. Morphine detected in Basic extract only by GCMS analysis

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
L99Z3P	Internal Standards - Mepivacaine, Nalorphine
LEUZCB	The Methods used were immunoassay an GC/MS
LQAUPP	Cutoff for Opiates is 300 ng/mL. Creatinine is normal.
LUCL6G	Mepivacaine was used as internal standard for all testing procedures excluding immunoassay.
LY6N9G	Internal Standard: mepivacaine for LC-HRMS/MS
MCNWYE	Nalorphine was used as the internal standard for the opiate confirmation.
NE88WJ	response for hydromorphone was very small in comparison to morphine, our limit of detection for hydromorphone in urine is ~ 7.8 ng/ml
NM36JL	Phenyltoloxamine internal standard; Base-neutral liquid-liquid extraction; General GC/MS method with full scan MS data
NQ2KUU	Sample leaked into bag. Lid not screwed on all the way.
NQJC4E	internal standards= mepivacaine and nalorphine
P6DKZJ	LOD: 10 ng/mL
PE49T2	Nalorphine was used as ISTD
PGDWQE	Opiate Confirmation ISTD: Nalorphine
PWJHRG	Opiate panel includes dihydrocodeine, codeine, morphine and 6-MAM. Internal standards used: Dihydrocodeine-D6, Codeine-D3, Morphine-D3, 6-Monoacetylmorphine-D3. 6-point calibration curve for dihydrocodeine, codeine and morphine (ng/mL): 50, 100, 200, 500, 1000, 2000. 6-point calibration curve for 6-Monoacetylmorphine (ng/mL): 5, 10, 20, 50, 100, 200. The urine sample was diluted (0.1 mL of sample + 0.9 mL of deionised water) so that the concentration would fall within the calibration curve.
R9UM2A	Artifacts found: acetaminophen, caffeine, lidocaine
RA4GXA	Morphine Cutoff 50 ng/mL
RA7737	Internal standard: Flurazepam
RD3TT9	hydromorphone confirmatory test not able to be performed due to LCMSMS validation for that analyte not completed yet.
TQPFM8	Mepivacaine, Nalorphine
UMNQJ6	Internal standards: Mepivacaine/Mephobarbital (HRMS) and Mepivacaine/Nalorphine (GCMS)
URXWB6	Morphine Cutoff 50 ng/mL. No fentanyl class positives from confirmation testing on 03/28/2023
VWQBJC	Immunoassay LOD: 100 ng/mL opioids (hydro's) & 50 ng/mL opiate (morphine/codeine). LC/MS/MS Internal Standard: Morphine D6 LC/MS/MS LOD: 10 ng/mL for both
WRNW3Z	In item 3: Codeine was detected with a signal to noise ratio near to the LoD of 5ng/mL. Also, a chromatographic response was observed for normorphine; however, the laboratory does not have a reference material for a confirmative analysis.
Y2N7NF	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]

TABLE 3F: Additional Comments for Item 3

WebCode	Item Comments
YFKFA2	Mepivacaine used as internal standard.
YKG92B	Cutoff: 300 ng/mL, creatinine normal
YU3D9A	The cut-off value of morphine is 50 ng/mL for LC/MS/MS, and 60ng/mL for GC/MS. The cut-off value of hydromorphone is 50 ng/mL for LC/MS/MS .
YYKDTW	This sample screened presumptive positive for amphetamine. Confirmatory testing was performed for this class and no drugs were detected. This sample screened presumptive positive for opiates and oxycodone/oxymorphone, however our lab does not currently have a confirmation method for these classes so these results were not confirmed.
Z3FH62	mepivacaine internal standard
Z6JJK6	hexobarbital internal reference material. phenyltoloxamine internal reference material. no synthetic opiates detected.
ZJ2694	The current qualitative and quantitative methods for opiates confirmation are off-line. The methods are currently being validated.

Additional Test Comments

TABLE 4

WebCode	Additional Comments
6YGYLP	The results are from predistribution samples for 23-5671 Urine Drug Analysis. [Participant Code], [Web Code]
86JP77	Item 2 and Item 3 bottles received on 16 Mar 2023 were accessioned and tested. Item 1 received on 16 Mar 2023 had leaked in transit, contaminating the outside of the bottle and its labeling. We requested that a new bottle of Item 1 be shipped to us. A new bottle of Item 1 was received on 24 March 2023. This bottle was accessioned and tested.
92FADA	The sample cup from Item 1 was received leaking. Maybe a better sealing method for the cups, or new manufacturer is warranted?
BEFPDV	4/3/2023 is the date that I took custody of the evidence.
CL9JKR	We did not analyze item 2 or 3.
E34XTG	No data.
E9U962	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
EGMGQR	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
FYJ7JZ	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
GC6ZBK	LC-HRAMS = Liquid Chromatography High Resolution Accurate Mass Spectrometry, done by Orbitrap. (This or TOF are common techniques now, consider adding them to the list of methods.)
HC2V8V	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
KPK3JL	The analysis was performed by different staff of Toxicology Section [Analysts]. Different extraction method was used by different staff. Derivatization using BSTFA was carried out on Acidic and Basic extract prior to GCMS analysis. Results from all staff were compiled and submitted to CTS.
Y2N7NF	All samples tested at [Laboratory] on the VIVA-ProE analyzer. Samples are tested for the following substances at the following cutoffs: 6 Acetyl Morphine (10 ng/mL), Amphetamines (1,000 ng/mL), Benzodiazepine (200 ng/mL), Cocaine (300 ng/mL), Opiates (300 ng/mL), THC (50 ng/mL), Oxycodone (100 ng/mL), EtG (1,000 ng/mL), Creatinine (20 mg/dL), Fentanyl (1 ng/mL). Tested by: [Analyst]
Z6JJK6	work performed at [Laboratory]

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 23-5671: Urine Drug Analysis

DATA MUST BE SUBMITTED BY **May 15, 2023, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234K

WebCode: WLK2BD

Scenario:

Investigators have submitted three urine specimens from three separate cases for your analysis. Using your laboratory's procedures, analyze each sample and report the presence of any drugs and/or metabolites.

Case 1: A 16 year old female was found unconscious at a party. Witnesses from the party noted that she had vomited and was dizzy before passing out. She was immediately transported to the hospital where a urine sample was taken. She died shortly after of respiratory depression.

Case 2: A 55 year old female was pulled over for reckless driving. The officer noticed that her pupils were dilated and she was talking very fast and displaying erratic behavior. A urine sample was collected for analysis two hours later.

Case 3: A 40 year old male was subject to a routine urine drug test for his cancer treatment.

-Samples may contain methanol and acetonitrile as artifacts from production.

***PLEASE NOTE** The purpose of this test is the examination of drugs listed in section 1308 of Title 21 Code of Federal Regulations under the United States Controlled Substances Act that fall into the following classes: benzodiazepines, nonbenzodiazepine hypnotics (z-drugs), barbiturates, opioids, illicit hallucinogens, illicit stimulants, illicit depressants, and cannabinoids. Please test accordingly.*

Items Submitted (Sample Pack UDRG):

Item 1: Urine sample from Case 1

Item 2: Urine sample from Case 2

Item 3: Urine sample from Case 3

Screening Results for Item 1:

1-1). Please indicate the screening results for Item 1.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 1:

1-2). Was confirmatory analysis performed for this item? Yes No

1-3). What drugs/metabolites were detected in Item 1? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

1-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

1-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1-6). Additional Comments for Item 1

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Screening Results for Item 2:

2-1). Please indicate the screening results for Item 2.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 2:

2-2). Was confirmatory analysis performed for this item? Yes No

2-3). What drugs/metabolites were detected in Item 2? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

2-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

2-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2-6). Additional Comments for Item 2

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Screening Results for Item 3:

3-1). Please indicate the screening results for Item 3.

- No drugs detected utilizing screening methods.
- Drug(s) detected (list each class and/or drug name below).

Confirmatory Results for Item 3:

3-2). Was confirmatory analysis performed for this item? Yes No

3-3). What drugs/metabolites were detected in Item 3? If quantitative determinations were performed, please record raw data in the provided spaces in ng/mL.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	(<input style="width: 40%;" type="text"/>)
Date(s) Analysis Performed on Analyte: <input style="width: 80%;" type="text"/>				
Raw Data (ng/mL):				
<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>	<input style="width: 15%;" type="text"/>

3-4). If quantitative analysis was performed, are the reported concentrations above

- A single determination? The mean of duplicate / several determinations?
- Other? (Specify):

3-5). Please select the analysis method(s) performed and check whether it was used for screening, confirmatory testing, and/or quantitation. Please list each method only once.

Method Used	Screening	Confirmatory	Quantitation
<input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3-6). **Additional Comments for Item 3**

Please include any relevant information such as internal standard(s) used, limits of detection, etc.

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

Date Samples Received:

Additional Comments on Test

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is not intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps **only if your laboratory is accredited in this testing/calibration discipline** by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety.

Authorized Contact Person and Title

Laboratory Name

Location (City/State)