



## **Urine Drug Analysis Test No. 18-5671 Summary Report**

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A sample set contained one specimen bottle of human urine for each of the three case scenarios. Participants were requested to examine these items and report their findings. Data were returned from 93 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

The sample sets consisted of a specimen bottle containing 50mL of human urine from three cases, each with an individual case scenario. 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.

**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 using the following procedure.

**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.

**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.

**VERIFICATION:** The three laboratories that conducted predistribution analysis of the samples indicated the presence of the expected drugs and/or a minimum of one expected metabolite per drug. All predistribution laboratories also reported the presence of cocaine in Item 1 in addition to the expected drugs, as shown in the table below.

<u>Item 1 Drug (Concentration)</u>	<u>Item 2 Drug (Concentration)</u>	<u>Item 3 Drug (Concentration)</u>
Benzoylcegonine (3,400 ng/mL) Ecgonine methyl ester (1,650 ng/mL) *Cocaine (<15 ng/mL)	Zolpidem (60 ng/mL)	6-Monoacetylmorphine (55 ng/mL) Morphine (2,550 ng/mL) Codeine (510 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 wait for the Grand Mean statistics available in the Summary and Individual Reports before evaluating performance.		

\*The manufacturer confirmed that cocaine was likely a contaminant in the standards used to create Item 1. Based on the information provided by the manufacturer, an approximate concentration was calculated.

## **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. Each participant was supplied with one specimen bottle containing 50mL of human urine spiked with differing drugs and/or metabolites for each of the three case scenarios. Participants were asked to report the presence of any drugs/metabolites, any quantitative data obtained (including uncertainty), and methods used. (Refer to the Manufacturer's Information for preparation details.)

Of the 91 participants who reported screening results for Item 1, 87 (95.6%) reported the presence of cocaine, benzoylecgonine, and/or ecgonine methyl ester. Of the 87 participants who reported confirmatory results for Item 1, 81 (93.1%) reported the presence of benzoylecgonine, 46 (52.9%) participants reported the presence of cocaine, and 41 (47.1%) participants reported the presence of ecgonine methyl ester. Cocaine was not an intentional addition to the sample. After it was detected by all predistribution laboratories, the manufacturer confirmed that it was likely a contaminant present in very low concentrations in the benzoylecgonine, and/or ecgonine methyl ester standards used in the creation of this item.

Of the 90 participants who reported screening results for Item 2, 49 (54.4%) reported the presence of zolpidem and 39 (43.3%) reported "No drugs/metabolites detected". Of the 81 participants who reported confirmatory results for Item 2, 73 (90.1%) reported the presence of zolpidem. Since immunoassays for zolpidem are typically not used as often, this may explain the large number of participants who reported that they did not detect any drugs/metabolites as a result of screening testing. A majority of the participants that moved forward with further testing confirmed the presence of zolpidem.

Of the 89 participants who reported screening results for Item 3, 84 (94.4%) reported the presence of opiates, 6-monoacetylmorphine, morphine, and/or codeine. Of the 84 participants who reported confirmatory results for Item 3, 81 (96.4%) reported the presence of morphine and codeine. The presence of 6-monoacetylmorphine was reported by 78 (92.9%) participants.

For all three items, immunoassay was the most common screening method and GC/MS was the most common confirmatory method utilized 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 information, no grand mean statistics were calculated or determinations regarding "extreme" data made for any of the analytes in the three items.

# Screening Results - Item 1

TABLE 1A Item 1

**Item Scenario:**

Case 1: A 23-year-old male was pulled over for speeding and aggressive driving. The officer noted that the individual exhibited dilated pupils, was very talkative, and energetic. A urine sample was collected for analysis 90 minutes later.

**Item Contents and Preparation Concentration:** Benzoyllecgonine (3,400 ng/mL)  
Ecgonine methyl ester (1,650 ng/mL)  
Cocaine (<15 ng/mL)

Webcode	Screening Results
23CWT8	Cocaine Metabolites
2EPUZW	Cocaine metabolite
2GWFMW	cocaine, benzoyllecgonine
2W8XHH	Cocaine class
2WLKRJ	cocaine metabolite
3GDTQZ	Cocaine metabolite
43NBB2	In the screening performed, presence of cocaine was detected.
4BJF3G	Benzoyllecgonine
4EHRZ3	Cocaine and its metabolites
4V7VPJ	Cocaine, Benzoyllecgonine
7C2E9B	Cocaine and cocaine metabolites
83UUPE	cocaine positive
8BC73F	Cocaine metabolites.
8XKJTE	Cocaine class
9ABRTT	Cocaine
9DVJ3A	cocaine/cocaine metabolites
ACRE27	cocaine metabolites
AKNAZP	Cocaine/Benzoyllecgonine
AMUY2D	Cocaine metabolites
AV9LEM	Cocaine metabolite
AW42QK	Benzoyllecgonine
BFNKV3	Cocaine metabolite
BMAHLB	Benzoyl ecgonine
CZBCUY	cocaine/cocaine metabolite
D7WN77	Benzoyllecgonine, Cocaine
DCJQX9	cocaine type drugs
DHA288	Cocaine
EH7J2V	Carisoprodol/Soma; Cocaine
EMHNEG	Cocaine Metabolite (Benzoyllecgonine)

TABLE 1A Item 1

Webcode	Screening Results
ENCEKV	Cocaine/cocaine metabolite
G37LTG	Benzoyllecgonine, Methylecgonine
GD6JEV	Benzoyllecgonine
GEVHTU	Cocaine metabolite
GFRZTB	cocaine/cocaine metabolites (via EIA)
GG6M7H	Cocaine & Benzoyllecgonine, Fentanyl
GQTKV3	cocaine/cocaine metabolites
GTE3DN	[Participant reported that drugs were detected, but did not report the drug class or name]
HMAN8C	No drugs/metabolites detected
HNF9UC	[Participant reported that drugs were detected, but did not report the drug class or name]
HPAYZR	ELISA Cocaine/Benzoyllecgonine, ELISA Fentanyl
J9GLY6	cocaine, benzoyllecgonine
K4LB6W	Cocaine and cocaine metabolites.
KG9J2X	Cocaine and metabolite(s)
LBJ4B6	cocaine/cocaine metabolites
LGPYU6	Cocaine and cocaine metabolites
LNPGAG	No drugs/metabolites detected
M2NKA2	cocaine/metabolites
M3NHLH	Cocaine and metabolites
MV6G4K	Cocaine metabolite
N7FA8K	Cocaine Metabolite (Benzoyllecgonine)
NZEVN6	Cocaine & Benzoyllecgonine
P7BCAU	cocaine/metabolites
PHTNRY	Cocaine
Q8PXLG	cocaine metabolites
QKBBC	Cocaine metabolite, Methylecgonine, cocaine
QKC6HH	Cocaine Metabolite
QT87YV	Cocaine Metabolite
R86G4T	cocaine/cocaine metabolites
R9CWCK	Specimen screened positive for Cocaine.
RA7H8W	Cocaine
RN7JKX	Cocaine
T82C7V	Cocaine
T8CDPA	Cocaine/Cocaine metabolite(s)
T9U8NX	Cocaine/cocaine metabolites
TD4LB4	cocaine metabolite

TABLE 1A Item 1

Webcode	Screening Results
TEY2MZ	BENZOYLECGONINE
TLFK3T	cocaine/cocaine metabolite
TXTX4U	Ecgonine methyl ester (EME), Benzoylecgonine (BZE)
U27YJX	Cocaine Metabolite
UNH3DU	cocaine/cocaine metabolites
VAGNVC	Cocaine metabolites
VFFAKQ	Cocaine
VRXR4	Methylecgonine, Benzoylecgonine
VTT8UZ	cocain
VYVGX8	Cocaine, Benzoylecgoine, Methylecgonine
W93GAU	cocaine metabolites
WAAX76	Cocaine metabolites
WD9CNN	cocaine, cocaine metabolites
WVUXBZ	Ecgonine Methyl Ester, Benzoylecgonine
WWPDNW	Cocaine Class (IA)
X2XYCU	Cocaine
X8GHBM	Sample screened positive for cocaine
XDPM69	Benzoylecgonine - Ecgonine Methyl Ester - Cocaine
XEYV82	Methylecgonine, Benzoylecgonine
XLLH6R	Amphetamine/MDA, Cocaine Metabolite (Benzoylecgonine)
XQDRBJ	cocaine, bze
XW382C	Cocaine and Metabolites
XZ3HVQ	cocaine/cocaine metabolites
YUQR8B	Cocaine/Benzoylecgonine (ELISA), Fentanyl (ELISA)
ZAZZKJ	cocaine/cocaine metabolites
ZQ33XH	cocaine/cocaine metabolites

Response Summary for Item 1		Participants: 91
Cocaine, benzoylecgonine, and/or ecgonine methyl ester:	87	
Other:	5	
No drugs/metabolites detected:	2	
<b>Totals may add up to more than the total number of participants because participants can report multiple classes/drug names.</b>		

# Confirmatory Results - Item 1

*What drugs/metabolites were detected in Item 1?*

TABLE 1B Item 1

**Item Scenario:**

Case 1: A 23-year-old male was pulled over for speeding and aggressive driving. The officer noted that the individual exhibited dilated pupils, was very talkative, and energetic. A urine sample was collected for analysis 90 minutes later.

**Item Contents and Preparation Concentration:** Benzoyllecgonine (3,400 ng/mL)  
Ecgonine methyl ester (1,650 ng/mL)  
Cocaine (<15 ng/mL)

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
23CWT8	benzoyllecgonine	✓			
	ecgonine methyl ester	✓			
2EPUZW	Benzoyllecgonine		>1000		ng/mL
2GWFMW	benzoyllecgonine	✓			
	cocaine	✓			
2W8XHH	Benzoyllecognine	✓			
	Cocaine	✓			
2WLKRJ	Benzoyllecgonine	✓			
	Ecgonine methyl ester	✓			
	Cocaine	✓			
3GDTQZ	Benzoyllecgonine	✓			
	Methylecgonine	✓			
	Cocaine	✓			
43NBB2	Benzoyllecgonine	✓			
	Ecgonine Methyl Ester	✓			
4BJF3G	Benzoyllecgonine	✓			
	Methylecgonine	✓			
4EHRZ3	Benzoyllecgonine	✓			
	Ecgonine Methyl Ester	✓			
	Cocaine	✓			
4V7VPJ	Benzoyllecgonine	✓			
	Cocaine	✓			
7C2E9B	Benzoyllecognine	✓			
	Cocaine	✓			
83JUPE	Benzoyllecgonine	✓			
8BC73F	Benzoyllecgonine	✓			
	Methylecgonine	✓			
8XKJTE	Benzoyllecgonine	✓			
	Cocaine	✓			

TABLE 1B Item 1

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
9ABRTT	Benzoylecgonine	✓			
	Ecgonine methyl-ester	✓			
9DVJ3A	Benzoylecgonine	✓			
	Cocaine	✓			
ACRE27	benzoylecgonine	✓			
	ecgonine methyl ester	✓			
	cocaine	✓			
AKNAZP	Benzoylecgonine	✓			
AMUY2D	Benzoylecgonine	✓			
	Ecgonine methylester	✓			
AV9LEM	Benzoylecgonine		2988		ng/ml
	Ecgonine methyl ester	✓			
	Cocaine	✓			
AW42QK	Benzoylecgonine	✓			
	Ecgonine Methyl ester	✓			
BFNKV3	Benzoylecgonine	✓			
BMAHLB	Benzoylecgonine		3.33	0.47	µg/mL
CGZG3R	Benzoylecgonine	✓			
	Ecgonine Methyl Ester	✓			
D7WN77	Benzoylecgonine	✓			
	Cocaine	✓			
DCJQX9	benzoylecgonine	✓			
	ecgonine methyl ester	✓			
EH7J2V	Benzoylecgonine	✓			
	Ecgonine Methyl Ester	✓			
EMHNEG	Benzoylecgonine	✓			
	Cocaine	✓			
ENCEKV	No drugs/metabolites detected				
G37LTG	Benzoylecgonine	✓			
	Methylecgonine	✓			
GD6JEV	Benzoylecgonine	✓			
GEVHTU	ecgonine methylester	✓			
GFRZTB	benzoylecgonine	✓			
	cocaine	✓			
GG6M7H	Ecgonine Methyl Ester	✓			
	Cocaine	✓			
GQTKV3	benzoylecgonine	✓			
	cocaine	✓			



TABLE 1B Item 1

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
GTE3DN	Benzoyllecgonine	✓			
	Ecgonine Methyl Ester	✓			
	Cocaine	✓			
HMAN8C	No drugs/metabolites detected				
HNF9UC	Methylecgonine	✓			
HPAYZR	Benzoyllecgonine	✓			
	Methylecgonine	✓			
	Cocaine	✓			
J9GLY6	benzoyllecgonine	✓			
	cocaine	✓			
K4LB6W	Benzoyllecgonine	✓			
	Cocaine	✓			
KG9J2X	Benzoyllecgonine	✓			
	Cocaine	✓			
LBJ4B6	benzoyllecgonine	✓			
	cocaine	✓			
LGPYU6	Benzoyllecgonine	✓			
	cocaine	✓			
LNPGAG	Benzoyllecgonine	✓			
	Ecgonine Methyl Ester	✓			
M2NKA2	benzoyllecgonine	✓			
	cocaine	✓			
M3NHLH	Benzoyllecgonine	✓			
	Ecgonine Methyl Ester	✓			
MV6G4K	Benzoyllecgonine		3347	669	ng/mL
N7FA8K	Benzoyllecgonine	✓			
	Cocaine	✓			
NZEVN6	Benzoyllecgonine	✓			
	Cocaine	✓			
P7BCAU	benzoyllecgonine	✓			
	cocaine	✓			
PHTNRY	Benzoyllecgonine		1968		ng/ml
	Ecgoninemethyl ester		481.0		ng/ml
Q8PXLG	Benzoyllecgonine		> 1000		ng/mL
	Ecgonine methyl ester	✓			
QKBBYC	Benzoyllecgonine	✓			
	Methylecgonine	✓			
	Cocaine	✓			
QKC6HH	Benzoyllecgonine				ng/mL

TABLE 1B Item 1

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
QT87YV	Benzoylecgonine (BZE)		3327		ng/mL
R86G4T	benzoylecgonine cocaine	✓ ✓			
RA7H8W	Benzoylecgonine Ecgoninemethyl ester		1983.6 508.4		ng/ml ng/ml
T82C7V	Benzoylecgonine Ecgoninemethyl ester		1979.2 485.6		ng/ml ng/ml
T8CDPA	Benzoylecgonine Methylecgonine Cocaine Ethylecgonine	✓ ✓ ✓ ✓			
T9U8NX	benzoylecgonine cocaine	✓ ✓			
TD4LB4	benzoylecgonine ecgonine methyl ester	✓ ✓			
TEY2MZ	BENZOYLECGONINE		3729.7	40%	ng/ml
TLFK3T	Benzoylecgonine		3.55	± 0.51	µg/mL
TXTX4U	Benzoylecgonine Ecgonine methyl ester		3500 1200	±20% ±20%	ng/mL ng/mL
U27YJX	Benzoylecgonine	✓			
UNH3DU	benzoylecgonine cocaine	✓ ✓			
VAGNVC	benzoylecgonine ecgonine methyl ester cocaine	✓ ✓ ✓			
VRXRG4	Benzoylecgonine Methylecgonine	✓ ✓			
VTT8UZ	benzoylecognine cocaethylene	✓ ✓			
VYVGX8	Benzoylecgonine Methylecgonine Cocaine	✓ ✓ ✓			
W93GAU	benzoylecgonine methylecgonine cocaine	✓ ✓ ✓			
WAAX76	Benzoylecgonine Methylecgonine Cocaine	✓ ✓ ✓			

TABLE 1B Item 1

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
WD9CNN	benzoylecgonine cocaine	✓ ✓			
WVUXBZ	Benzoylecgonine Ecgonine Methyl Ester	✓ ✓			
WWPDNW	Benzoylecgonine	✓			
X2XYCU	Benzoylecgonine Ecgonine Methyl Ester Cocaine	✓ ✓ ✓			
X8GHBM	Benzoylecgonine	✓			
XDPM69	Benzoylecgonine Ecgonine Methyl Ester Cocaine	✓ ✓ ✓			
XEYV82	Benzoylecgonine Methylecgonine	✓ ✓			
XLLH6R	Benzoylecgonine Cocaine	✓ ✓			
XQDRBJ	bze cocaine	✓ ✓			
XW382C	Cocaine cocaine metabolites	✓ ✓			
XZ3HVQ	benzoylecognine cocaine	✓ ✓			
YUQR8B	Benzoylecgonine Methylecgonine Cocaine	✓ ✓ ✓			
ZAZZKJ	benzoylecogonine cocaine	✓ ✓			
ZQ33XH	benzoylecgonine cocaine	✓ ✓			

Response Summary for Item 1		Participants: 87
Benzoylecgonine:	81	
Ecgonine methyl ester:	41	
Cocaine:	46	
No drugs/metabolites detected:	2	
Other:	3	
<p><b>Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.</b></p>		

## Raw Data - Item 1

*List of raw data determinations in ng/mL.*

TABLE 1C Item 1

**Item 1 Raw Data - Benzoylecgonine**  
**Preparation concentration: (3,400 ng/mL)**

Webcode	Raw Data (ng/mL)	
2EPUZW	3,927.3	
AV9LEM	2,924.2	3,051.6
BMAHLB	3,336.0	
MV6G4K	3,347.0	
PHTNRY	2,008.8	1,927.2
Q8PXLG	2,821.0	
QKC6HH	3,672.7	
QT87YV	3,315.4	3,340.0
RA7H8W	2,055.2	1,912.0
T82C7V	2,012.8	1,945.6
TEY2MZ	3,729.7	
TLFK3T	3,556.0	
TXTX4U	3,517.0	3,417.0

### Statistical Analysis for Item 1 - Benzoylecgonine

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

TABLE 1C Item 1  
Item 1 Raw Data - Ecgonine methyl ester  
Preparation concentration: (1,650 ng/mL)

Webcode	Raw Data (ng/mL)	
PHTNRY	472.5	489.6
RA7H8W	524.0	492.8
T82C7V	472.8	498.4
TXTX4U	1,217.0	1,182.0

**Statistical Analysis for Item 1 - Ecgonine methyl ester**

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

## Reporting Procedures - Item 1

*If quantitative analysis was performed, the reported concentrations are:*

TABLE 1D Item 1

Webcode	Quantitative Reporting Procedures
2EPUZW	A single determination.
AV9LEM	The mean of duplicate/several determinations.
BMAHLB	A single determination.
MV6G4K	A single determination.
PHTNRY	The mean of duplicate/several determinations.
Q8PXLG	A single determination.
QT87YV	A single determination.
RA7H8W	The mean of duplicate/several determinations.
T82C7V	The mean of duplicate/several determinations.
TEY2MZ	The mean of duplicate/several determinations.
TLFK3T	A single determination.
TXTX4U	The mean of duplicate/several determinations.

Response Summary for Item 1	Participants: 12
A single determination:	6 (50.0%)
The mean of duplicate/several determinations:	6 (50.0%)

## Methods of Analysis - Item 1

TABLE 1E Item 1

Webcode	Method	Screening	Confirmatory	Quantitation
23CWT8	Immunoassay GC/MS	✓	✓	
2EPUZW	Immunoassay LC/MS/MS	✓	✓	✓
2GWFMW	GC/MS	✓	✓	
2W8XHH	Immunoassay GC/MS	✓	✓	
2WLKRJ	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
3GDTQZ	Immunoassay GC/MS	✓ ✓	✓	
43NBB2	GC/MS Drug Test	✓	✓	
4BJF3G	Immunoassay GC/MS	✓	✓	
4EHRZ3	GC/MS LC/MS/MS	✓	✓ ✓	
4V7VPJ	GC/MS LC/MS/MS LC-TOF	✓ ✓ ✓	✓	
7C2E9B	Immunoassay GC/MS	✓ ✓	✓	
83UUPE	Immunoassay GC/MS	✓	✓	
8BC73F	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
8XKJTE	Immunoassay GC/MS	✓ ✓	✓	
9ABRTT	Immunoassay GC/MS	✓	✓	
9DVJ3A	Immunoassay GC/MS	✓ ✓	✓	
ACRE27	Immunoassay GC/MS HPLC/qTOF	✓ ✓	✓	
AKNAZP	Immunoassay GC/MS	✓ ✓	✓	
AMUY2D	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	

TABLE 1E Item 1

Webcode	Method	Screening	Confirmatory	Quantitation
AV9LEM	Immunoassay GC/MS LC/MS	✓	✓ ✓	✓
AW42QK	Immunoassay GC/MS	✓	✓	
BFNKV3	Immunoassay GC/MS	✓ ✓	✓	
BMAHLB	Immunoassay GC/MS	✓	✓	✓
CGZG3R	GC/MS		✓	
CZBCUY	Immunoassay	✓		
D7WN77	Immunoassay GC/MS	✓	✓	
DCJQX9	Immunoassay LC-TOFMS	✓	✓	
DHA288	Immunoassay	✓		
EH7J2V	Immunoassay GC/MS	✓	✓	
EMHNEG	Immunoassay GC/MS	✓	✓	
ENCEKV	Immunoassay	✓		
G37LTG	Immunoassay GC/MS	✓ ✓	✓	
GD6JEV	Immunoassay GC/MS	✓ ✓	✓	
GEVHTU	Immunoassay GC/MS	✓	✓	
GFRZTB	Immunoassay GC/MS	✓	✓	
GG6M7H	Immunoassay GC/MS	✓	✓	
GQTKV3	Immunoassay GC/MS	✓	✓	
GTE3DN	LC/MS LC/MS/MS	✓	✓	
HMAN8C	GC/MS	✓		
HNF9UC	Immunoassay GC/MS	✓	✓	
HPAYZR	Immunoassay GC/MS	✓	✓	
J9GLY6	Immunoassay GC/MS	✓ ✓	✓	
K4LB6W	Immunoassay GC/MS	✓	✓	



TABLE 1E Item 1

Webcode	Method	Screening	Confirmatory	Quantitation
KG9J2X	Immunoassay GC/MS	✓	✓	
LBJ4B6	Immunoassay GC/MS	✓	✓	
LGPYU6	Immunoassay GC/MS	✓	✓	
LNPGAG	GC/MS		✓	
M2NKA2	Immunoassay GC/MS	✓	✓	
M3NHLH	Immunoassay GC/MS	✓	✓	
MV6G4K	Immunoassay GC/MS	✓	✓	✓
N7FA8K	Immunoassay GC/MS	✓	✓	
NZEVN6	LC/MS/MS	✓	✓	
P7BCAU	Immunoassay GC/MS	✓	✓	
PHTNRY	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
Q8PXLG	Immunoassay LC/MS/MS	✓	✓	✓
QKBBYC	Immunoassay GC/MS	✓ ✓	✓	
QKC6HH	Immunoassay GC/MS	✓ ✓	✓	✓
QT87YV	Immunoassay GC/MS	✓	✓	
R86G4T	Immunoassay GC/MS	✓ ✓	✓	
RA7H8W	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
RN7JKX	Immunoassay	✓		
T82C7V	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	✓
T8CDPA	Immunoassay GC/MS	✓ ✓	✓	
T9U8NX	Immunoassay GC/MS	✓	✓	
TD4LB4	Immunoassay GC/MS	✓	✓	
TEY2MZ	LC/MS/MS	✓	✓	✓

TABLE 1E Item 1

Webcode	Method	Screening	Confirmatory	Quantitation
TLFK3T	Immunoassay GC/MS	✓	✓	✓
TXTX4U	Immunoassay GC/MS LC/MS/MS QToF	✓ ✓ ✓		✓ ✓
U27YJX	Immunoassay GC/MS	✓	✓	
UNH3DU	Immunoassay GC/MS	✓	✓	
VAGNVC	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
VFFAKQ	Immunoassay	✓		
VRXRG4	Immunoassay GC/MS	✓ ✓	✓	
VTT8UZ	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
VYVGX8	Immunoassay GC/MS	✓ ✓	✓	
W93GAU	Immunoassay GC/MS	✓	✓	
WAAX76	Immunoassay GC/MS	✓	✓	
WD9CNN	Immunoassay GC/MS	✓	✓	
WVUXBZ	GC/MS LC/MS/MS Rapid Chromatographic Immunoassay	✓ ✓ ✓	✓ ✓	
WWPDNW	Immunoassay GC/MS	✓ ✓	✓	
X2XYCU	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
X8GHBM	Immunoassay GC/MS	✓	✓	
XDPM69	LC/MS LC/MS/MS	✓	✓	
XEYV82	Immunoassay GC/MS	✓	✓	
XLLH6R	Immunoassay GC/MS	✓	✓	
XQDRBJ	Immunoassay GC/MS	✓	✓	

TABLE 1E Item 1

Webcode	Method	Screening	Confirmatory	Quantitation
XW382C	Immunoassay GC/MS	✓	✓	
XZ3HVQ	Immunoassay GC/MS	✓	✓	
YUQR8B	Immunoassay GC/MS	✓	✓	
ZAZZKJ	Immunoassay GC/MS	✓	✓	
ZQ33XH	Immunoassay GC/MS	✓	✓	

Response Summary for Item 1		Participants: 91		
		Screening	Confirmatory	Quantitation
<b>Immunoassay:</b>		79	0	0
<b>GC/MS:</b>		25	75	6
<b>LC/MS:</b>		2	1	0
<b>LC/MS/MS:</b>		7	16	7
<b>Other:</b>		4	3	0

## Additional Comments for Item 1

TABLE 1F Item 1

Webcode	Item 1 - Comments
23CWT8	SKF-525A internal standard
2EPUZW	Results are above our upper limit of quantitation (1000ng/mL).
2GWFMW	Sample analyzed twice by GC/MS.
2W8XHH	Internal Standards: Mepivacaine and Nalorphine
43NBB2	The internal standard (STI) used on the analysis is tetracosane, the detection limit establish is 300 ng/mL . [The following data was removed from Table 1C - Raw Data Item 1 since the participant indicated it is the detection limit - Benzoylecgonine: "300", Ecgonine methyl ester: "300"]
4BJF3G	Zolpidem was indicated by Immunoassay but not confirmed by GCMS.
7C2E9B	Mepavacaine, Nalorphine-butyl derivative
83UUPE	Internal Standard use Codeine-d3. The sample was liquid liquid extraction with and without derivatisation using TMS
8BC73F	The cut-off value we use at our lab in urine samples for cocaine and metabolites is 50 ng/mL, despite that we detect cocaine in the sample it was below the cut-off value.
9DVJ3A	Mepivacaine\Nalorphine used as internal standards.
BMAHLB	IS: BE-D3. Screen c/o 300 ng/mL, confirm LOD 0.2 µg/mL.
CGZG3R	Ethylmorphine was used as internal standard.
CZBCUY	Preliminary testing indicated the possible presence of cocaine/cocaine metabolite. Unable to pursue as analyst is not authorized to perform this type of confirmation testing.
D7WN77	Mepivacaine, Nalorphine
DCJQX9	cocaine was identified in the urine at a level that was too low to confirm.
DHA288	Only a screening test was performed since confirmations are currently beyond my competency. Classes screened - Benzodiazepines, THC, Cocaine, Methamphetamine, Opiates, PCP
EH7J2V	ELISA Soma Cutoff 500 ng/mL. ELISA Coc/BZE Cutoff 300 ng/mL
EMHNEG	Ecgonine Methyl Ester, (Pseudo)Ecgonine Methyl Ester and Benzoylecgonine Isopropyl Ester observed - No standard available for RRT. Doxylamine and Cocaethylene observed, not reported - poor abundance of diagnostic ions. Ecgonine Methyl Ester TMS - observed no standard available for RRT
ENCEKV	Preliminary testing indicated the possible presence of cocaine/cocaine metabolite. Unable to pursue as the analyst is not authorized to perform this type of confirmation testing.
GEVHTU	Would also report: Inconclusive for cocaine, as it does not meet the [laboratory] criteria for identification. This is due to insufficient sample response to meet [laboratory] confirmation criteria.
GFRZTB	mepivacaine and nalorphine were used as various internal standards during testing.
GQTKV3	Internal standards used were mepivacaine and nalorphine. Butylation was used.
HPAYZR	N-Propylamphetamine, alphaprodine and hexobarbital were used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory. GC/MS LOD for Cocaine: 10 ng/mL. GC/MS LOD for Methylecgonine: 50 ng/mL. GC/MS LOD for Benzoylecgonine: 250 ng/mL

TABLE 1F Item 1

Webcode	Item 1 - Comments
K4LB6W	Internal standards used include mepivacaine and benzoylecgonine-d8.
KG9J2X	The internal standard used was Mepivacaine to obtain the relative retention time for Cocaine and Benzoylecgonine. Nalorphine was also used as an internal standard in an extraction to ensure that butylation occurred. Nalorphine and benzoylecgonine both were butylated in this extraction.
LBJ4B6	Internal Standards: mepivacaine, nalorphine
LNPGAG	Flurazepam was used as Internal Standard.
M2NKA2	internal standards: mepivacaine, nalorphine
MV6G4K	Benzoylecgonine: Internal Standard: Benzolyecgonine-d9; LOD/LOQ: 25 ng/mL
QKC6HH	Internal Standard for GC/MS Screen: Phenyltoloxamine; Internal Standard for GC/MS Quantitation Confirmation: Benzoylecgonine-D3. Benzoylecgonine(BE)% error for control: Injection #1: +3.76% (518.78ng/mL), Injection #2: +3.30% (516.51ng/mL). Control data within 3 standard deviations on ongoing control data as required per procedure. % error acceptable. Per [legislation], in order to identify BE in a urine sample, the concentration of BE must be above 500ng/mL.
QT87YV	Internal Standard -BZE d3. Six point standard curve 50ng/mL - 2000ng/mL
R86G4T	internal standards: mepivacaine
RN7JKX	Cocaine cutoff: 150 ng/mL. Creatinine: Normal
T9U8NX	Internal standards used - mepivacaine & nalorphine
TD4LB4	SKF-525A used as internal standard
TLFK3T	Internal Standard Benzoylecgonine-D3. Limit of quantitation for confirmation: 0.200 µg/mL. Limit of Detection for screening: 0.966 O.D. / 300 ng/mL Benzoylecgonine.
TXTX4U	Deuterated (D3) internal standards of target analytes. Limit of detection (LoD) of BZE and EME is 250 ng/mL, LoD of cocaine is 750 ng/mL.
UNH3DU	internal standards: mepivacaine, nalorphine
VFFAKQ	The sample was screened for the following type/class of drugs: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, PCP. No confirmatory method was used on this samples as it is beyond my current qualifications.
VYVGX8	Nalorphine ISTD for Combined Drugs extraction
W93GAU	internal standard - phenyltoloxamine
WD9CNN	mepivacaine, nalorphine, bze-d8
WVUXBZ	Alere iCassette (THC) test device was used to screen for THC, referred to in 1-4 [Table 1E Methods of Analysis - Item 1] as rapid chromatographic immunoassay, The cutoff for the assay is 50 ng/mL.
X8GHBM	Confirmation cut off level was 50 ng/mL.
XDPM69	Estazolam = Internal Standard
XLLH6R	GC/MS Internal standard (base extraction): Mepivacaine. GC/MS Internal standards (derivatized base extraction): Nalorphine, Mepivacaine. GC/MS Internal standards (phenethylamine extraction): Mepivacaine, Amphetamine-D11, Methamphetamine-D11. Analysis did not confirm the presence of Amphetamine/MDA.
XQDRBJ	Mepivacaine was used as the internal standard for confirmation testing.

TABLE 1F Item 1

<b>Webcode</b>	<b>Item 1 - Comments</b>
YUQR8B	Alphaprodine, n-Propylamphetamine, and Hexobarbital used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory. GC/MS limits of detection: Methylecgonine 50 ng/mL. Benzoylcegonine 250 ng/mL. Cocaine 10 ng/mL
ZAZZKJ	mepivacaine and nalorphine used as internal standards
ZQ33XH	internal standards: mepivacaine and nalorphine

## Screening Results - Item 2

TABLE 2A Item 2

**Item Scenario:**

A 57-year-old female was subject to a pre-employment drug test. A urine sample was collected for analysis.

**Item Contents and Preparation Concentration:**      Zolpidem (60 ng/mL)

Webcode	Screening Results
23CWT8	Zolpidem
2EPUZW	Zolpidem
2GWFMW	zolpidem
2W8XHH	zolpidem
2WLKRJ	No drugs/metabolites detected
3GDTQZ	Zolpidem
43NBB2	No drugs/metabolites detected
4BJF3G	No drugs/metabolites detected
4EHRZ3	Zolpidem
4V7VPJ	Zolpidem
7C2E9B	Zolpidem
83UUPE	No drugs/metabolites detected
8BC73F	No drugs/metabolites detected
8XKJTE	Zolpidem
9ABRTT	No drugs/metabolites detected
9DVJ3A	No drugs/metabolites detected
ACRE27	zolpidem
AKNAZP	Zolpidem
AMUY2D	Zolpidem
AV9LEM	Zolpidem
AW42QK	Zolpidem
BFNKV3	Zolpidem
BMAHLB	No drugs/metabolites detected
CZBCUY	No drugs/metabolites detected
D7WN77	Zolpidem
DCJQX9	zolpidem
DHA288	No drugs/metabolites detected
EH7J2V	No drugs/metabolites detected
ENCEKV	No drugs/metabolites detected
G37LTG	Zolpidem
GD6JEV	Zolpidem

TABLE 2A Item 2

Webcode	Screening Results
GEVHTU	No drugs/metabolites detected
GFRZTB	No drugs/metabolites detected
GG6M7H	Zolpidem
GQTKV3	No drugs/metabolites detected
GTE3DN	[Participant reported that drugs were detected, but did not report the drug class or name]
HMAN8C	No drugs/metabolites detected
HNF9UC	[Participant reported that drugs were detected, but did not report the drug class or name]
HPAYZR	ELISA Zolpidem, ELISA Fentanyl
J9GLY6	zolpidem
K4LB6W	No drugs/metabolites detected
KG9J2X	No drugs/metabolites detected
LBJ4B6	No drugs/metabolites detected
LGPYU6	zolpidem
LNPAGAG	No drugs/metabolites detected
M2NKA2	No drugs/metabolites detected
M3NHLH	No drugs/metabolites detected
MV6G4K	Zolpidem
N7FA8K	Zolpidem
NZEVN6	Zolpidem
P7BCAU	No drugs/metabolites detected
PHTNRY	Zolpidem
Q8PXLG	zolpidem
QKBBYC	Zolpidem
QKC6HH	No drugs/metabolites detected
QT87YV	No drugs/metabolites detected
R86G4T	zolpidem
R9CWCK	No drugs/metabolites detected
RA7H8W	Zolpidem
RN7JKX	No drugs/metabolites detected
T82C7V	Zolpidem
T8CDPA	Zolpidem
T9U8NX	No drugs/metabolites detected
TD4LB4	zolpidem
TEY2MZ	ZOLPIDEM
TLFK3T	No drugs/metabolites detected
TXTX4U	Zolpidem



TABLE 2A Item 2

Webcode	Screening Results
U27YJX	Zolpidem
UNH3DU	No drugs/metabolites detected
VAGNVC	Zolpidem
VFFAKQ	No drugs/metabolites detected
VRXRG4	Zolpidem
VTT8UZ	No drugs/metabolites detected
VYVGX8	Zolpidem
W93GAU	No drugs/metabolites detected
WAA76	No drugs/metabolites detected
WD9CNN	No drugs/metabolites detected
WWUXBZ	Zolpidem
WWPDNW	Zolpidem (GC/MS)
X2XYCU	Zolpidem
X8GHBM	No drugs/metabolites detected
XDPM69	Zolpidem
XEYV82	Zolpidem
XLLH6R	Zolpidem
XQDRBJ	zolpidem
XW382C	Zolpidem
XZ3HVQ	No drugs/metabolites detected
YUQR8B	Zolpidem (ELISA), Fentanyl (ELISA)
ZAZZKJ	No drugs/metabolites detected
ZQ33XH	No drugs/metabolites detected

Response Summary for Item 2	Participants: 90
Zolpidem:	49
Other:	2
No drugs/metabolites detected:	39
<p>Totals may add up to more than the total number of participants because participants can report multiple drugs/analytes.</p>	

## Confirmatory Results - Item 2

*What drugs/metabolites were detected in Item 2?*

TABLE 2B Item 2

**Item Scenario:**

A 57-year-old female was subject to a pre-employment drug test. A urine sample was collected for analysis.

**Item Contents and Preparation Concentration:** Zolpidem (60 ng/mL)

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
23CWT8	zolpidem	✓			
2EPUZW	Zolpidem	✓			
2GWFMW	zolpidem	✓			
2W8XHH	zolpidem	✓			
2WLKRJ	Zolpidem	✓			
3GDTQZ	Zolpidem	✓			
43NBB2	No drugs/metabolites detected				
4BJF3G	No drugs/metabolites detected				
4EHRZ3	Zolpidem	✓			
4V7VPJ	Zolpidem	✓			
7C2E9B	Zolpidem	✓			
83UUPE	Zolpidem	✓			
8BC73F	No drugs/metabolites detected				
8XKJTE	Zolpidem	✓			
9DVJ3A	Zolpidem	✓			
ACRE27	zolpidem	✓			
AKNAZP	Zolpidem	✓			
AMUY2D	Zolpidem	✓			
AV9LEM	Zolpidem	✓			
AW42QK	Zolpidem	✓			
BFNKV3	Zolpidem	✓			
CGZG3R	No drugs/metabolites detected				
D7WN77	Zolpidem	✓			
DCJQX9	zolpidem	✓			
EH7J2V	No drugs/metabolites detected				
ENCEKV	No drugs/metabolites detected				
G37LTG	Zolpidem	✓			
GD6JEV	Zolpidem	✓			

TABLE 2B Item 2

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
GEVHTU	No drugs/metabolites detected				
GFRZTB	zolpidem	✓			
GG6M7H	Zolpidem	✓			
GQTKV3	zolpidem	✓			
GTE3DN	Zolpidem	✓			
	2-Hydroxy Zolpidem	✓			
HMAN8C	No drugs/metabolites detected				
HNF9UC	zolpidem	✓			
HPAYZR	Zolpidem	✓			
J9GLY6	zolpidem	✓			
K4LB6W	Zolpidem	✓			
KG9J2X	Zolpidem	✓			
LBJ4B6	zolpidem	✓			
LGPYU6	zolpidem	✓			
LNPGAG	Zolpidem	✓			
M2NKA2	zolpidem	✓			
M3NHLH	Zolpidem	✓			
MV6G4K	Zolpidem		53	11	ng/mL
N7FA8K	Zolpidem	✓			
NZEVN6	Zolpidem	✓			
P7BCAU	zolpidem	✓			
PHTNRY	Zolpidem		68.4		ng/ml
Q8PXLG	Zolpidem	✓			
QKBBYC	Zolpidem	✓			
QKC6HH	Zolpidem	✓			
R86G4T	zolpidem	✓			
RA7H8W	Zolpidem		64.4		ng/ml
T82C7V	Zolpidem		52.8		ng/ml
T8CDPA	Zolpidem	✓			
T9U8NX	zolpidem	✓			
TD4LB4	zolpidem	✓			
TEY2MZ	ZOLPIDEM		57.15	40%	ng/ml
TXTX4U	Zolpidem	✓	Detected		
U27YJX	Zolpidem	✓			
UNH3DU	zolpidem	✓			

TABLE 2B Item 2

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
VAGNVC	zolpidem	✓			
VRXRG4	Zolpidem	✓			
VTT8UZ	zolpidem	✓			
VYVGX8	Zolpidem	✓			
W93GAU	zolpidem	✓			
WAAX76	Zolpidem	✓			
WD9CNN	zolpidem	✓			
WVUXBZ	Zolpidem	✓			
WWPDNW	Zolpidem	✓			
X2XYCU	Zolpidem	✓			
XDPM69	Zolpidem	✓			
XEYV82	Zolpidem	✓			
XLLH6R	Zolpidem	✓			
XQDRBJ	zolpidem	✓			
XW382C	Zolpidem	✓			
XZ3HVQ	zolpidem	✓			
YUQR8B	Zolpidem	✓			
ZAZZKJ	zolpidem	✓			
ZQ33XH	zolpidem	✓			

**Response Summary for Item 2****Participants: 81**

Zolpidem: 73

No drugs/metabolites detected: 8

Other: 1

Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.

## **Raw Data - Item 2**

*List of raw data determinations in ng/mL.*

TABLE 2C Item 2

**Item 2 Raw Data - Zolpidem**  
**Preparation concentration: (60 ng/mL)**

<b>Webcode</b>	<b>Raw Data (ng/mL)</b>	
MV6G4K	53.00	
PHTNRY	76.80	60.00
RA7H8W	72.00	56.80
T82C7V	51.20	54.40
TEY2MZ	55.50	58.80

### **Statistical Analysis for Item 2 - Zolpidem**

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

## Reporting Procedures - Item 2

*If quantitative analysis was performed, the reported concentrations are:*

TABLE 2D Item 2

Webcode	Quantitative Reporting Procedures
MV6G4K	A single determination.
PHTNRY	The mean of duplicate/several determinations.
RA7H8W	The mean of duplicate/several determinations.
T82C7V	The mean of duplicate/several determinations.
TEY2MZ	The mean of duplicate/several determinations.

Response Summary for Item 2	Participants: 5
A single determination:	1 (20.0%)
The mean of duplicate/several determinations:	4 (80.0%)

## Methods of Analysis - Item 2

TABLE 2E Item 2

Webcode	Method	Screening	Confirmatory	Quantitation
23CWT8	Immunoassay GC/MS	✓	✓	
2EPUZW	Immunoassay LC/MS/MS	✓	✓	
2GWFMW	GC/MS	✓	✓	
2W8XHH	Immunoassay GC/MS	✓ ✓	✓	
2WLKRJ	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
3GDTQZ	Immunoassay GC/MS	✓ ✓	✓	
43NBB2	GC/MS Drug Test	✓	✓	
4BJF3G	Immunoassay GC/MS	✓	✓	
4EHRZ3	LC/MS/MS	✓	✓	
4V7VPJ	GC/MS LC/MS LC-TOF	✓ ✓ ✓	✓	
7C2E9B	Immunoassay GC/MS	✓ ✓	✓	
83UUPE	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8BC73F	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
8XKJTE	Immunoassay GC/MS	✓ ✓	✓	
9ABRTT	Immunoassay	✓		
9DVJ3A	GC/MS	✓	✓	
ACRE27	Immunoassay GC/MS HPLC/qTOF	✓ ✓	✓	
AKNAZP	Immunoassay GC/MS	✓ ✓	✓	
AMUY2D	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
AV9LEM	GC/MS LC/MS/MS	✓	✓	

TABLE 2E Item 2

Webcode	Method	Screening	Confirmatory	Quantitation
AW42QK	Immunoassay GC/MS	✓	✓	
BFNKV3	Immunoassay GC/MS	✓ ✓	✓	
BMAHLB	Immunoassay	✓		
CGZG3R	GC/MS		✓	
CZBCUY	Immunoassay	✓		
D7WN77	Immunoassay GC/MS	✓ ✓	✓	
DCJQX9	Immunoassay LC-TOFMS	✓ ✓	✓	
DHA288	Immunoassay	✓		
EH7J2V	Immunoassay GC/MS	✓	✓	
ENCEKV	Immunoassay	✓		
G37LTG	Immunoassay GC/MS	✓ ✓	✓	
GD6JEV	Immunoassay GC/MS	✓ ✓	✓	
GEVHTU	Immunoassay GC/MS	✓	✓	
GFRZTB	Immunoassay GC/MS	✓	✓	
GG6M7H	Immunoassay GC/MS	✓	✓	
GQTKV3	Immunoassay GC/MS	✓	✓	
GTE3DN	LC/MS LC/MS/MS	✓	✓	
HMAN8C	GC/MS	✓		
HNF9UC	Immunoassay GC/MS	✓	✓	
HPAYZR	Immunoassay GC/MS	✓	✓	
J9GLY6	Immunoassay GC/MS	✓ ✓	✓	
K4LB6W	Immunoassay GC/MS	✓	✓	
KG9J2X	Immunoassay GC/MS	✓	✓	
LBJ4B6	Immunoassay GC/MS	✓	✓	
LGPYU6	Immunoassay GC/MS	✓ ✓	✓	
LNPGAG	GC/MS		✓	



TABLE 2E Item 2

Webcode	Method	Screening	Confirmatory	Quantitation
M2NKA2	GC/MS		✓	
M3NHLH	Immunoassay GC/MS	✓	✓	
MV6G4K	Immunoassay LC/MS/MS	✓	✓	✓
N7FA8K	Immunoassay GC/MS	✓	✓	
NZEVN6	LC/MS/MS	✓	✓	
P7BCAU	Immunoassay GC/MS	✓	✓	
PHTNRY	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	✓
Q8PXLG	GC/MS LC/MS/MS	✓	✓	
QKBBYC	Immunoassay GC/MS	✓ ✓	✓	
QKC6HH	Immunoassay GC/MS	✓	✓	
QT87YV	Immunoassay	✓		
R86G4T	Immunoassay GC/MS	✓ ✓	✓	
RA7H8W	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓	✓
RN7JKX	Immunoassay	✓		
T82C7V	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓	
T8CDPA	Immunoassay GC/MS	✓ ✓	✓	
T9U8NX	Immunoassay GC/MS	✓	✓	
TD4LB4	Immunoassay GC/MS	✓	✓	
TEY2MZ	LC/MS/MS	✓	✓	✓
TLFK3T	Immunoassay	✓		
TXX4U	Immunoassay GC/MS QToF	✓ ✓ ✓		
U27YJX	Immunoassay GC/MS	✓	✓	
UNH3DU	Immunoassay GC/MS	✓	✓	

TABLE 2E Item 2

Webcode	Method	Screening	Confirmatory	Quantitation
VAGNVC	Immunoassay	✓		
	GC/MS		✓	
	LC-QTOF		✓	
VFFAKQ	Immunoassay	✓		
VRXR4	GC/MS	✓	✓	
VTT8UZ	LC/MS		✓	
VYVGX8	GC/MS	✓	✓	
W93GAU	GC/MS	✓	✓	
WAAX76	GC/MS	✓	✓	
WD9CNN	Immunoassay	✓		
	GC/MS	✓	✓	
WVUXBZ	GC/MS		✓	
	LC/MS/MS	✓		
	Rapid Chromatographic Immunoassay	✓		
WWPDNW	Immunoassay	✓		
	GC/MS	✓	✓	
X2XYCU	GC/MS	✓		
	LCMSQTOF		✓	
X8GHBM	Immunoassay	✓		
XDPM69	LC/MS	✓		
	LC/MS/MS		✓	
XEYV82	GC/MS	✓	✓	
XLLH6R	Immunoassay	✓		
	GC/MS		✓	
XQDRBJ	Immunoassay	✓		
	GC/MS		✓	
XW382C	GC/MS	✓	✓	
XZ3HVQ	Immunoassay	✓		
	GC/MS		✓	
YUQR8B	Immunoassay	✓		
	GC/MS		✓	
ZAZZKJ	Immunoassay	✓		
	GC/MS		✓	
ZQ33XH	GC/MS	✓	✓	

Response Summary for Item 2		Participants: 90		
	Screening	Confirmatory	Quantitation	
<b>Immunoassay:</b>	65	0	0	
<b>GC/MS:</b>	35	61	0	
<b>LC/MS:</b>	3	2	0	
<b>LC/MS/MS:</b>	7	16	4	
<b>Other:</b>	5	4	0	

## Additional Comments for Item 2

TABLE 2F Item 2

Webcode	Item 2 - Comments
23CWT8	SKF-525A internal standard
2EPUZW	Above our qualitative cutoff of 20ng/mL
2GWFMW	Sample analyzed twice by GC/MS.
2W8XHH	Internal standard: Mepivacaine
43NBB2	STI tetracosane, 300 ng/mL limit of detection, liquid-liquid extraction.
4BJF3G	Zolpidem was indicated by Immunoassay but not confirmed by GCMS.
7C2E9B	Mepivacaine
83UUPE	Sample was extracted by liquid liquid extraction using codeine -d3 as internal standard with and without derivatisation using TMS. additional compounds were detected ( caffeine and paracetamol)
8BC73F	Despite finding zolpidem in the urine sample, the amount was below the cut-off limit we set at the lab (50 ng/mL).
9DVJ3A	Mepivacaine used as internal standard.
BFNKV3	Internal standards: Hexobarbital, SKF-525a
BMAHLB	AMP 500 ng/mL, Benzo 300 ng/mL, COC 300 ng/mL, MAMP 500 ng/mL. OPI 300 ng/mL, THC 50 ng/mL.
CGZG3R	Ethylmorphine was used as internal standard.
D7WN77	Mepivacaine
DHA288	Only a screening test was performed since confirmations are currently beyond my competency. Classes screened - Benzodiazepines, THC, Cocaine, Methamphetamine, Opiates, PCP
GFRZTB	mepivacaine was used as the internal standard during testing.
GQTKV3	Internal standard used was mepivacaine.
GTE3DN	It was not possible to confirmate 2-Hydroxy Zolpidem by MS-MS. There is no Reference Material for this analyte.
HPAYZR	N-Propylamphetamine, alphaprodine and hexobarbital were used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory.
K4LB6W	Internal standard used was mepivacaine.
KG9J2X	Mepivacaine was used as an internal standard to obtain a relative retention time for Zolpidem.
LBJ4B6	Internal Standards: mepivacaine
LNPAG	Flurazepam was used as Internal Standard.
M2NKA2	internal standards: mepivacaine, nalorphine
MV6G4K	Zolpidem: Internal Standard: Zolpidem-d6; LOD/LOQ: 20 ng/mL
N7FA8K	Internal Standard - Mepivacaine. Zolpidem: Immunoassay cutoff value - 20 ng/ml; GC/MS LOD - 12.5 ng/ml

TABLE 2F Item 2

Webcode	Item 2 - Comments
QKC6HH	Internal Standard for GC/MS Confirmation: Phenyltoloxamine. No limit of detection.
QT87YV	Screening for the following drugs only: Amphetamine, Benzodiazepines, Cocaine Metabolite, Ecstasy, Methadone, Opiate, Cannabinoids
R86G4T	internal standard: mepivacaine
RN7JKX	Creatinine normal. No drugs detected, all considered under cutoff levels. Cocaine cutoff: 150 ng/mL. Marijuana cutoff: 50 ng/mL. Amphetamines cutoff: 500 ng/mL. Benzodiazepines cutoff: 300 ng/mL. Opiates cutoff: 300 ng/mL
T9U8NX	Internal standards used - mepivacaine
TD4LB4	SKF-525A used as internal standard
TLFK3T	Limit of detection for screening: Amphetamine : 0.786 O.D. / 500ng/mL. Benzodiazepines: 1.077 O.D. / 300ng/mL oxazepam. Cocaine: 0.966 O.D. / 300ng/mL Benzoylcegonine. Methamphetamine: 0.611 O.D. / 500ng/mL. Opiates: 0.789 O.D / 300ng/mL Morphine. THC: 1.064 O.D. / 50ng/mL carboxy-THC.
UNH3DU	internal standard: mepivacaine
VFFAKQ	The sample was screened for the following type/class of drugs: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, PCP
W93GAU	internal standard - phenyltoloxamine
WD9CNN	mepivacaine
WVUXBZ	Alere iCassette (THC) test device was used to screen for THC, referred to in 2-4 [Table 2E Methods of Analysis - Item 2] as rapid chromatographic immunoassay, The cutoff for the assay is 50 ng/mL.
XDPM69	Estazolam = Internal Standard
XLLH6R	GC/MS Internal standard (base extraction): Mepivacaine
XQDRBJ	Mepivacaine was used as internal standard for confirmation tests.
YUQR8B	Alphaprodine, n-Propylamphetamine, and Hexobarbital used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory.
ZAZZKJ	mepivacaine and nalorphine used as internal standards
ZQ33XH	internal standards: mepivacaine

## Screening Results - Item 3

TABLE 3A Item 3

**Item Scenario:**

A 40-year-old male, previously arrested for an attempted burglary of a pharmacy, is now subject to random drug testing as part of probation. A urine sample was collected for analysis.

**Item Contents and Preparation Concentration:** 6-Monoacetylmorphine (55 ng/mL)  
Morphine (2,550 ng/mL)  
Codeine (510 ng/mL)

Webcode	Screening Results
23CWT8	Opioids
2EPUZW	6MAM, Opiates
2GWFMW	codeine, morphine
2W8XHH	Opioids Class
2WLKRJ	opiates
3GDTQZ	Opiates
43NBB2	Opiates detected
4BJF3G	Opiates
4EHRZ3	Codeine; 6-Monoacetylmorphine and Morphine
4V7VPJ	6-monoacetylmorphine, Morphine, Codeine
7C2E9B	No drugs/metabolites detected
83UUPE	opiates
8BC73F	Opiates.
8XKJTE	Opiates class
9ABRTT	Opiates
9DVJ3A	common opioids
ACRE27	opiates
AKNAZP	Opiates / 6-Monoacetylmorphine
AMUY2D	opiates
AV9LEM	Opiates
AW42QK	Opiates and Opioids
BFNKV3	Opiates
BMAHLB	Codeine, Morphine
CZBCUY	opiate/opiate metabolite
D7WN77	Codeine, Morphine, 6-monoacetyl-morphine (6-MAM)
DCJQX9	opiate-type drugs, monoacetylmorphine
DHA288	Opiates
EH7J2V	Opiate/Morphine, Oxycodone
EMHNEG	Opiates
ENCEKV	Opiate class compound(s)
GD6JEV	Opiates

TABLE 3A Item 3

Webcode	Screening Results
GEVHTU	opiates
GFRZTB	common opiates (via EIA)
GQTKV3	opioids
GTE3DN	[Participant reported that drugs were detected, but did not report the drug class or name]
HMAN8C	No drugs/metabolites detected
HNF9UC	[Participant reported that drugs were detected, but did not report the drug class or name]
HPAYZR	ELISA Opiates/Oxycodone/Oxymorphone, ELISA Fentanyl
J9GLY6	codeine, morphine
K4LB6W	Opioids
KG9J2X	Opioids
LBJ4B6	opioids
LGPYU6	Opioids
LNPAG	No drugs/metabolites detected
M2NKA2	opioids
M3NHLH	Opiates
MV6G4K	Opiates
NZEVN6	6-monoacetylmorphine, morphine, and codeine
P7BCAU	opioids
PHTNRY	Opiates
Q8PXLG	opioids
QKBBYC	Opiates, monoacetylmorphine, morphine, codeine
QKC6HH	Opiates per Immunoassay, Codeine & Morphine per GC/MS
QT87YV	Opiate
R86G4T	opioids
R9CWCK	Specimen screened positive for Opiates.
RA7H8W	Caffeine, 6-monoacetylmorphine, Codeine, Morphine, Hydrocodone, Hydromorphone
RN7JKX	Opiates
T82C7V	Opiates
T8CDPA	Codeine, Morphine, 6-monoacetylmorphine
T9U8NX	common opioids
TD4LB4	opiates
TEY2MZ	6-MAM, CODEINE, HYDROCODONE, MORPHINE
TLFK3T	Opiates
TXX4U	Morphine, Codeine, Monoacetylmorphine
U27YJX	Opiates
UNH3DU	common opioids
VAGNVC	opiates
VFFAKQ	Opiates

TABLE 3A Item 3

Webcode	Screening Results
VRXRG4	Codeine, Morphine, 6-monoacetylmorphine
VTT8UZ	opiate group
VYVGX8	Codeine, Morphine, Monoacetylmorphine
W93GAU	opiates
WAAX76	Opiates
WD9CNN	opiates
WVUXBZ	Morphine, Codeine, 6-o-acetylmorphine
WWPDNW	Opioid Class (IA)
X2XYCU	Opiates
X8GHBM	Sample screened positive for opiates
XDPM69	Morphine, Codeine, 6-Acetylmorphine
XEYV82	Opiates
XLLH6R	Amphetamine/MDA, Opiates
XQDRBJ	codeine, morphine, 6- monoacetyl morphine
XW382C	Fentanyl and Opiates
XZ3HVQ	opioids
Y9TF2P	Opiates
YUQR8B	Opiates (ELISA), Oxycodone/Oxymorphone (ELISA), Fentanyl (ELISA)
ZAZZKJ	opioids
ZQ33XH	common opioids

Response Summary for Item 3	Participants: 89
Opiates, 6-MAM, morphine, and/or codeine:	84
Other:	8
No drugs/metabolites detected:	3
<p>Totals may add up to more than the total number of participants because participants can report multiple drugs/analytes.</p>	

## Confirmatory Results - Item 3

*What drugs/metabolites were detected in Item 3?*

TABLE 3B Item 3

**Item Scenario:**

A 40-year-old male, previously arrested for an attempted burglary of a pharmacy, is now subject to random drug testing as part of probation. A urine sample was collected for analysis.

**Item Contents and Preparation Concentration:** 6-Monoacetylmorphine (55 ng/mL)  
Morphine (2,550 ng/mL)  
Codeine (510 ng/mL)

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
23CWT8	6-acetylmorphine	✓			
	morphine	✓			
	codeine	✓			
2EPUZW	6-Monoacetylmorphine		53.86	4.30	ng/mL
	Morphine	✓			
	Codeine	✓			
2GWFMW	morphine	✓			
	codeine	✓			
2W8XHH	6 monoacetyl morphine	✓			
	Morphine	✓			
	Codeine	✓			
2WLKRJ	6 monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
3GDTQZ	6 monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
43NBB2	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
4BJF3G	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
4EHRZ3	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
4V7VPJ	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
7C2E9B	6-monoacetyl-morphine	✓			
	Morphine	✓			
	Codeine	✓			



TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
83UUPE	6-MAM	✓			
	morphine	✓			
	codeine	✓			
8BC73F	6-MAM	✓			
	Morphine	✓			
	Codeine	✓			
8XKJTE	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
9ABRTT	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
9DVJ3A	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
ACRE27	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
AKNAZP	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
AMUY2D	6-acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
AV9LEM	6-Monoacetylmorphine		50		ng/ml
	Morphine		2146		ng/ml
	Codeine		513		ng/ml
AW42QK	6-Acetyl-Morphine (6-MAM)				
	Morphine	✓			
	Codeine	✓			
BFNKV3	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
BMAHLB	Morphine		2.52	0.43	µg/mL
	Codeine		0.495	0.097	µg/mL
CGZG3R	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
D7WN77	6-monoacetyl-morphine (6-MAM)	✓			
	Morphine	✓			
	Codeine	✓			

TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
DCJQX9	monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
EH7J2V	6-monacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
EMHNEG	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
ENCEKV	No drugs/metabolites detected				
GD6JEV	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
GEVHTU	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
GFRZTB	6-monoacetyl morphine (6MAM)	✓			
	morphine	✓			
	codeine	✓			
GQTKV3	6-monoacetyl morphine	✓			
	morphine	✓			
	codeine	✓			
GTE3DN	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
HMAN8C	No drugs/metabolites detected				
HNF9UC	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
HPAYZR	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
J9GLY6	6-monoacetyl morphine	✓			
	morphine	✓			
	codeine	✓			
K4LB6W	6-mono acetyl morphine	✓			
	Morphine	✓			
	Codeine	✓			
KG9J2X	6-monoacetyl morphine	✓			
	Morphine	✓			
	Codeine	✓			

TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
LBJ4B6	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
LGPYU6	6-monoacetyl-morphine	✓			
	morphine	✓			
	codeine	✓			
LNPGAG	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
M2NKA2	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
M3NHLH	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
MV6G4K	6-acetylmorphine		54	11	ng/mL
	Morphine		2533	507	ng/mL
	Codeine		521	104	ng/mL
NZEVN6	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
P7BCAU	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
PHTNRY	6-monoacetylmorphine		17.2		ng/ml
	Morphine		1094.4		ng/ml
	Codeine		389.2		ng/ml
	Caffeine		57.6		ng/ml
	Hydrocodone		33.6		ng/ml
	Hydromorphone		341.2		ng/ml
Q8PXLG	6-Acetylmorphine		69	13	ng/mL
	Morphine	✓			
	Codeine	✓			
QKBBYC	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
QKC6HH	6-Monoacetylmorphine	✓			
QT87YV	6 Monoacetylmorphine		55		ng/mL
	Morphine		2698		ng/mL
	Codeine		491		ng/mL

TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
R86G4T	6-monoacetyl morphine	✓			
	morphine	✓			
	codeine	✓			
RA7H8W	6-monoacetylmorphine		16		ng/ml
	Morphine		1170.4		ng/ml
	Codeine		420		ng/ml
	Caffeine		58.8		ng/ml
	Hydrocodone		35.6		ng/ml
	Hydromorphone		379.6		ng/ml
T82C7V	6-monoacetylmorphine		19.2		ng/ml
	Morphine		1127.6		ng/ml
	Codeine		384.4		ng/ml
	Caffeine		75.2		ng/ml
	Hydrocodone		31.6		ng/ml
	Hydromorphone		355.6		ng/ml
T8CDPA	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
T9U8NX	6-monoacetylmorphine (6-MAM)	✓			
	morphine	✓			
	codeine	✓			
TD4LB4	morphine	✓			
	codeine	✓			
TEY2MZ	6-MAM		60.8	40%	ng/ml
	MORPHINE		4701.1	40%	ng/ml
	CODEINE		476.9	40%	ng/ml
	HYDROCODONE		74.45	40%	ng/ml
TLFK3T	Morphine		2.58	± 0.44	µg/mL
	Codeine		0.491	± 0.096	µg/mL
TXX4U	Monoacetylmorphine		52	±20%	ng/mL
	Morphine		2800	±20%	ng/mL
	Codeine		460	±20%	ng/mL
U27YJX	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
UNH3DU	6-monoacetyl-morphine	✓			
	morphine	✓			
	codeine	✓			
VAGNVC	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			

TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
VRXRG4	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
VTT8UZ	6-acetyl morphine	✓			
	morphine	✓			
	codeine	✓			
VYVGX8	Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
W93GAU	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
WAAX76	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
WD9CNN	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
WVUXBZ	6-o-acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
WWPDNW	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
X2XYCU	6-Monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
XDPM69	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
XEYV82	6-monoacetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
XLLH6R	6-Monoacetylmorphine (6-MAM)	✓			
	Morphine	✓			
	Codeine	✓			
XQDRBJ	6-monoacetyl morphine	✓			
	morphine	✓			
	codeine	✓			

TABLE 3B Item 3

Webcode	Analyte Reported	Qualitative Only	Reported Concentration	Uncertainty	Units
XW382C	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
XZ3HVQ	6 monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			
Y9TF2P	6-Monoacetylmorphine (6-MAM)	✓			
	Morphine	✓			
	Codeine	✓			
YUQR8B	6-Acetylmorphine	✓			
	Morphine	✓			
	Codeine	✓			
ZAZZKJ	6-monoacetyl morphine	✓			
	morphine	✓			
	codeine	✓			
ZQ33XH	6-monoacetylmorphine	✓			
	morphine	✓			
	codeine	✓			

Response Summary for Item 3		Participants: 84
6-Monoacetylmorphine:	78	
Morphine:	81	
Codeine:	81	
No drugs/metabolites detected:	2	
Other:	10	
Totals may add up to more than the total number of participants because participants can report multiple drugs/metabolites.		

## **Raw Data - Item 3**

*List of raw data determinations in ng/mL.*

TABLE 3C Item 3

**Item 3 Raw Data - 6-Monoacetylmorphine**  
**Preparation concentration: (55 ng/mL)**

<b>Webcode</b>	<b>Raw Data (ng/mL)</b>	
2EPUZW	53.86	
AV9LEM	52.78	48.21
MV6G4K	54.00	
PHTNRY	16.80	17.60
Q8PXLG	69.00	
QT87YV	55.66	55.69
RA7H8W	16.00	16.00
T82C7V	16.80	21.60
TEY2MZ	62.90	58.70
TXX4U	55.00	49.00

### **Statistical Analysis for Item 3 - 6-Monoacetylmorphine**

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

TABLE 3C Item 3  
Item 3 Raw Data - Morphine  
Preparation concentration: (2,550 ng/mL)

Webcode	Raw Data (ng/mL)	
AV9LEM	2,150.0	2,142.4
BMAHLB	2,529.0	
MV6G4K	2,533.0	
PHTNRY	1,074.4	1,114.4
QT87YV	2,697.8	2,698.3
RA7H8W	1,174.4	1,166.4
T82C7V	1,089.6	1,165.6
TEY2MZ	4,701.1	
TLFK3T	2,587.0	
TXTX4U	2,707.0	2,877.0

#### 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 Item 3  
Item 3 Raw Data - Codeine  
Preparation concentration: (510 ng/mL)

Webcode	Raw Data (ng/mL)	
AV9LEM	518.4	508.3
BMAHLB	495.0	
MV6G4K	521.0	
PHTNRY	378.4	400.0
QT87YV	492.0	491.3
RA7H8W	425.6	414.4
T82C7V	390.4	378.4
TEY2MZ	433.9	519.9
TLFK3T	491.0	
TXTX4U	464.0	451.0

#### Statistical Analysis for Item 3 - Codeine

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

TABLE 3C Item 3  
Item 3 Raw Data - Other

Webcode	Analyte	Raw Data (ng/mL)	
PHTNRY	Caffeine	64.00	51.20
	Hydrocodone	33.60	33.60
	Hydromorphone	341.6	340.8
RA7H8W	Caffeine	72.80	44.80
	Hydrocodone	35.20	36.00
	Hydromorphone	382.4	376.8
T82C7V	Caffeine	73.60	76.80
	Hydrocodone	32.00	31.20
	Hydromorphone	342.4	368.8
TEY2MZ	HYDROCODONE	70.90	78.00

**Statistical Analysis for Item 3 - Other**

Please note statistical analysis is not provided for other drug responses.

## Reporting Procedures - Item 3

*If quantitative analysis was performed, the reported concentrations are:*

TABLE 3D Item 3

WebCode	Quantitative Reporting Procedures
2EPUZW	A single determination.
AV9LEM	The mean of duplicate/several determinations.
BMAHLB	A single determination.
MV6G4K	A single determination.
PHTNRY	The mean of duplicate/several determinations.
Q8PXLG	A single determination.
QT87YV	A single determination.
RA7H8W	The mean of duplicate/several determinations.
T82C7V	The mean of duplicate/several determinations.
TEY2MZ	The mean of duplicate/several determinations.
TLFK3T	A single determination.
TXTX4U	The mean of duplicate/several determinations.

Response Summary for Item 3	Participants: 12
A single determination:	6 (50.0%)
The mean of duplicate/several determinations:	6 (50.0%)

## Methods of Analysis - Item 3

TABLE 3E Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
23CWT8	Immunoassay GC/MS	✓	✓	
2EPUZW	Immunoassay LC/MS/MS	✓	✓	✓
2GWFMW	GC/MS	✓	✓	
2W8XHH	Immunoassay GC/MS	✓ ✓	✓	
2WLKRJ	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
3GDTQZ	Immunoassay GC/MS	✓ ✓	✓	
43NBB2	GC/MS Drug Test	✓	✓	
4BJF3G	Immunoassay GC/MS	✓	✓	
4EHRZ3	GC/MS LC/MS/MS	✓ ✓	✓ ✓	
4V7VPJ	GC/MS LC/MS/MS LC-TOF	✓ ✓ ✓	✓	
7C2E9B	Immunoassay GC/MS	✓ ✓	✓	
83UUPE	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8BC73F	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	
8XKJTE	Immunoassay GC/MS	✓ ✓	✓	
9ABRTT	Immunoassay GC/MS	✓	✓	
9DVJ3A	Immunoassay GC/MS	✓ ✓	✓	
ACRE27	Immunoassay GC/MS HPLC/qTOF	✓ ✓		
AKNAZP	Immunoassay GC/MS	✓ ✓	✓	
AMUY2D	Immunoassay LC/MS/MS	✓ ✓	✓	

TABLE 3E Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
AV9LEM	Immunoassay GC/MS LC/MS/MS	✓	✓ ✓	✓ ✓
AW42QK	Immunoassay GC/MS	✓	✓	
BFNKV3	Immunoassay GC/MS	✓ ✓	✓	
BMAHLB	Immunoassay GC/MS	✓	✓	✓
CGZG3R	GC/MS		✓	
CZBCUY	Immunoassay	✓		
D7WN77	Immunoassay GC/MS	✓	✓	
DCJQX9	Immunoassay LC-TOFMS	✓	✓	
DHA288	Immunoassay	✓		
EH7J2V	Immunoassay GC/MS	✓	✓	
EMHNEG	Immunoassay GC/MS	✓	✓	
ENCEKV	Immunoassay	✓		
GD6JEV	Immunoassay GC/MS	✓ ✓	✓	
GEVHTU	Immunoassay GC/MS	✓	✓	
GFRZTB	Immunoassay GC/MS	✓	✓	
GQTKV3	Immunoassay GC/MS	✓	✓	
GTE3DN	LC/MS LC/MS/MS	✓	✓	
HMAN8C	GC/MS	✓		
HN9FUC	Immunoassay GC/MS	✓	✓	
HPAYZR	Immunoassay GC/MS	✓	✓	
J9GLY6	Immunoassay GC/MS	✓ ✓	✓	
K4LB6W	Immunoassay GC/MS	✓	✓	
KG9J2X	Immunoassay GC/MS	✓	✓	
LBJ4B6	Immunoassay GC/MS	✓	✓	

TABLE 3E Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
LGPYU6	Immunoassay GC/MS	✓ ✓	✓	
LNPGAG	GC/MS		✓	
M2NKA2	Immunoassay GC/MS	✓ ✓	✓	
M3NHLH	Immunoassay GC/MS	✓ ✓	✓	
MV6G4K	Immunoassay LC/MS/MS	✓ ✓	✓	✓
NZEVN6	LC/MS/MS	✓	✓	
P7BCAU	Immunoassay GC/MS	✓ ✓	✓	
PHTNRY	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	✓
Q8PXLG	Immunoassay LC/MS/MS	✓ ✓	✓	✓
QKBBYC	Immunoassay GC/MS	✓ ✓	✓	
QKC6HH	Immunoassay GC/MS	✓ ✓	✓	
QT87YV	Immunoassay GC/MS	✓ ✓	✓	
R86G4T	Immunoassay GC/MS	✓ ✓	✓	
RA7H8W	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	✓
RN7JKX	Immunoassay	✓		
T82C7V	Immunoassay GC/MS LC/MS/MS	✓ ✓ ✓	✓ ✓	✓
T8CDPA	Immunoassay GC/MS	✓ ✓	✓	
T9U8NX	Immunoassay GC/MS	✓ ✓	✓	
TD4LB4	Immunoassay GC/MS	✓ ✓	✓	
TEY2MZ	LC/MS/MS	✓	✓	✓
TLFK3T	Immunoassay GC/MS	✓ ✓	✓	✓
TXTX4U	Immunoassay GC/MS LC/MS/MS QToF	✓ ✓ ✓ ✓		✓

TABLE 3E Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
U27YJX	Immunoassay GC/MS	✓	✓	
UNH3DU	Immunoassay GC/MS	✓	✓	
VAGNVC	Immunoassay GC/MS LC-QTOF	✓	✓ ✓	
VFFAKQ	Immunoassay	✓		
VRXRG4	Immunoassay GC/MS	✓	✓	
VTT8UZ	Immunoassay GC/MS LC/MS	✓	✓ ✓	
VYVGX8	Immunoassay GC/MS	✓	✓	
W93GAU	Immunoassay GC/MS	✓	✓	
WAAX76	Immunoassay GC/MS	✓	✓	
WD9CNN	Immunoassay GC/MS	✓	✓	
WVUXBZ	GC/MS LC/MS/MS Rapid Chromatographic Immunoassay	✓ ✓ ✓	✓	
WWPDNW	Immunoassay GC/MS	✓ ✓	✓	
X2XYCU	Immunoassay GC/MS LCMSQTOF	✓	✓ ✓	
X8GHBM	Immunoassay	✓		
XDPM69	LC/MS LC/MS/MS	✓	✓	
XEYV82	Immunoassay GC/MS	✓	✓	
XLLH6R	Immunoassay GC/MS	✓	✓	
XQDRBJ	Immunoassay GC/MS	✓	✓	
XW382C	Immunoassay GC/MS LC/MS/MS	✓ ✓	✓ ✓	
XZ3HVQ	Immunoassay GC/MS	✓	✓	
Y9TF2P	Immunoassay GC/MS	✓	✓	

TABLE 3E Item 3

WebCode	Method	Screening	Confirmatory	Quantitation
YUQR8B	Immunoassay GC/MS	✓	✓	
ZAZZKJ	Immunoassay GC/MS	✓	✓	
ZQ33XH	Immunoassay GC/MS	✓	✓	

Response Summary for Item 3			Participants: 89		
	Screening	Confirmatory	Quantitation		
<b>Immunoassay:</b>	77	0	0		
<b>GC/MS:</b>	25	70	3		
<b>LC/MS:</b>	2	1	0		
<b>LC/MS/MS:</b>	7	18	9		
<b>Other:</b>	4	3	0		



## Additional Comments for Item 3

TABLE 3F Item 3

WebCode	Item 3 - Comments
23CWT8	SKF-525A internal standard
2EPUZW	Codeine and morphine are above the qualitative cutoff of 50ng/mL.
2GWFMW	Sample analyzed twice by GC/MS.
2W8XHH	Internal Standards: Mepivacaine and Nalorphine
3GDTQZ	Nalorphine - Internal Standard for Opiate Confirmation
43NBB2	The same method of analysis was used in the item 1 and 2. [The following data was removed from Table 3C - Raw Data Item 3 since the participant indicated it is the detection limit - 6-Monoacetylmorphine: "300", Morphine: "300", Codeine: "300"]
4BJF3G	Zolpidem was indicated by Immunoassay but not confirmed by GCMS.
7C2E9B	Mepivacaine, nalorphine - butyl derivative
83UUPE	Sample was extracted by liquid liquid extraction using codeine -d3 as internal standard with and without derivatisation using TMS. The GCMS general unknown screening revealed the presence of Protopine qualitatively
9DVJ3A	Mepivacaine\Nalorphine used as internal standards.
BMAHLB	IS: COD-D3, MOR-D3. Screen c/o 300 ng/mL. COD/MOR LOD 0.2 µg/mL.
CGZG3R	Ethylmorphine was used as internal standard.
CZBCUY	Preliminary testing indicated the possible presence of opiate(s)/opiate metabolite(s). Unable to pursue as analyst is not authorized to perform this type of confirmation testing.
D7WN77	Mepivacaine, nalorphine
DHA288	Only a screening test was performed since confirmations are currently beyond my competency. Classes screened - Benzodiazepines, THC, Cocaine, Methamphetamine, Opiates, PCP
EMHNEG	Mepivacaine and Nalorphine - Internal Standards
ENCEKV	Preliminary testing indicated the possible presence of an opiate class compound(s). Unable to pursue as that analyst is not authorized to perform this type of confirmation testing.
GFRZTB	mepivacaine and nalorphine were used as various internal standards during testing.
GQTKV3	Internal standards used were mepivacaine and nalorphine. Butylation was used.
GTE3DN	A small signal for morphine glucuronide was detected. It was not possible to confirmate by MS-MS.
HPAYZR	N-Propylamphetamine, alphaprodine and hexobarbital were used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory. Oxycodone/Oxymorphone ELISA presented a positive result, but neither Oxycodone nor Oxymorphone were detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory.
K4LB6W	Internal standards used include mepivacaine and nalorphine.

TABLE 3F Item 3

WebCode	Item 3 - Comments
KG9J2X	The internal standard used was Mepivacaine to obtain the relative retention time for Codeine, Morphine, and 6MAM. Nalorphine was also used as an internal standard in an extraction to ensure that butylation occurred. Nalorphine, 6MAM, and morphine were all butylated in this extraction.
LBJ4B6	Internal Standards: mepivacaine, nalorphine
LNPGAG	Flurazepam was used as Internal Standard.
M2NKA2	internal standards: mepivacaine, nalorphine
MV6G4K	6-acetylmorphine: Internal Standard: 6-acetylmorphine-d6. LOD/LOQ: 2 ng/mL. Codeine: Internal Standard: Codeine-d6. LOD/LOQ: 10 ng/mL. Morphine: Internal Standard: Morphine-d6. LOD/LOQ: 10 ng/mL
QKBBYC	Nalorphine used as internal standard for opiate confirmation.
QKC6HH	Internal Standard for GC/MS Confirmation: Phenyltoloxamine. No limit of detection.
QT87YV	Internal Standards: Morphine D3, Codeine D3, Mam D3. Six point curve- Morphine/ Codeine 50ng/mL - 2000ng/mL. MAM 5ng/mL - 200ng/mL
R86G4T	internal standard: mepivacaine, nalorphine
RN7JKX	Opiates cutoff: 300 ng/mL. Creatinine normal
T9U8NX	Internal standards used - mepivacaine & nalorphine
TD4LB4	SKF-525A used as internal standard
TLFK3T	Internal standard: codeine-D3 & morphine-D3. Limit of quantitation for confirmation: codeine: 0.200µg/mL; morphine: 1.0µg/mL. Limit of detection for confirmation: codeine: 0.200µg/mL; morphine: 0.200µg/mL. Limit of detection for screening: opiates: 0.789 O.D / 300ng/mL morphine.
TXTX4U	Deuterated (D3) standards of target analytes used as internal standards.
UNH3DU	internal standards: mepivacaine, nalorphine
VFFAKQ	The sample was screened for the following type/class of drugs: Amphetamines, Benzodiazepines, Cannabinoids, Cocaine, Opiates, PCP. No confirmatory method was used on this samples as it is beyond my current qualifications.
VYVGX8	Nalorphine ISTD for Combined Drugs extraction
W93GAU	internal standard - phenyltoloxamine
WD9CNN	mepivacaine nalorphine
WVUXBZ	Alere iCassette (THC) test device was used to screen for THC, referred to in 3-4 [Table 3E Methods of Analysis - Item 3] as rapid chromatographic immunoassay, The cutoff for the assay is 50 ng/mL.
X8GHBM	Our lab currently does not confirm opiates in urine.
XDPM69	Estazolam = Internal Standard

TABLE 3F Item 3

WebCode	Item 3 - Comments
XLLH6R	GC/MS Internal standard (base extraction): Mepivacaine. GC/MS Internal standards (derivatized base extraction): Nalorphine, Mepivacaine. GC/MS Internal standards (phenethylamine extraction): Mepivacaine, Amphetamine-D11, Methamphetamine-D11. Analysis did not confirm the presence of Amphetamine/MDA.
XQDRBJ	Mepivacaine was the internal standard used in confirmation testing.
Y9TF2P	Two extractions were performed that were run on GC/MS, one was a base extraction the other was a base derivatized extraction. Internal standards were Mepivacaine and Nalorphine-diTMS. Doxylamine was seen but not reported. Morphine related peaks were seen but not reported.
YUQR8B	Alphaprodine, n-Propylamphetamine, and Hexobarbital used as internal standards. Fentanyl ELISA presented a positive result, but Fentanyl was not detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory. Oxycodone/Oxymorphone (ELISA) presented a positive result, but neither Oxycodone nor Oxymorphone were detected via confirmatory testing (GC/MS). No presumptive screening results are reported by this laboratory.
ZAZZKJ	mepivacaine and nalorphine used as internal standards
ZQ33XH	internal standards: mepivacaine/nalorphine

## Additional Test Comments

TABLE 4

<b>WebCode</b>	<b>Additional Comments</b>
9DVJ3A	I am not sure what the concentration of the cocaine was intended to be ( I assume small), but there is stability issues with cocaine in urine (acidic environment) which may have contributed to some lower recoveries.
CZBCUY	An immunoassay screen was performed on the sample for benzodiazepines class compounds, cannabinoid, cocaine, opiate class compounds, methamphetamine, and methadone. At this time, analyst is only signed off to perform screening methods on the ELISA and benzodiazepine confirmation on the LCMSQQQ for urine.
ENCEKV	Analyst is only authorized to perform immunoassay screening and benzodiazepine confirmation for urine samples. An Immunoassay Screen was performed on the samples for: Benzodiazepines Class Compounds, Cannabinoids, Cocaine, Opiate Class Compounds, Methamphetamine and Methadone.

-End of Report-  
(Appendix may follow)

# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## Test No. 18-5671: Urine Drug Analysis

DATA MUST BE RECEIVED BY May 14, 2018 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and 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 on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB, ANAB or A2LA.

### 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 23-year-old male was pulled over for speeding and aggressive driving. The officer noted that the individual exhibited dilated pupils, was very talkative, and energetic. A urine sample was collected for analysis 90 minutes later.

Case 2: A 57-year-old female was subject to a pre-employment drug test. A urine sample was collected for analysis.

Case 3: A 40-year-old male, previously arrested for an attempted burglary of a pharmacy, is now subject to random drug testing as part of probation. A urine sample was collected for analysis.

### Instructions:

**\*\*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.

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

### 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

**Please return all pages of this data sheet.**

Page 1 of 9

Participant Code:

WebCode:

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

The number of boxes shown does not indicate the number of analytes present. If additional space is needed, copy this page or attach your own form following this layout.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

**Please return all pages of this data sheet.**

Participant Code:

WebCode:

**Results for Item 1 (continued):**

**1-3.) If quantitative analysis was performed, are the reported concentrations for Item 1:**

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

**1-4.) Please check the methods used to analyze Item 1 by selecting whether each method used was for screening, confirmatory testing and/or quantitation.**

<u>Method Used</u>	<u>Screening</u>	<u>Confirmatory</u>	<u>Quantitation</u>
Immunoassay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**1-5.) Additional Comments for Item 1**

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

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Participant Code:

WebCode:

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

The number of boxes shown does not indicate the number of analytes present. If additional space is needed, copy this page or attach your own form following this layout.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

**Please return all pages of this data sheet.**



Participant Code:

WebCode:

**Results for Item 2 (continued):**

**2-3.) If quantitative analysis was performed, are the reported concentrations for Item 2:**

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

**2-4.) Please check the methods used to analyze Item 2 by selecting whether each method used was for screening, confirmatory testing and/or quantitation.**

<u>Method Used</u>	<u>Screening</u>	<u>Confirmatory</u>	<u>Quantitation</u>
Immunoassay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**2-5.) Additional Comments for Item 2**

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

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Participant Code:

WebCode:

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

The number of boxes shown does not indicate the number of analytes present. If additional space is needed, copy this page or attach your own form following this layout.

- No drugs/metabolites detected utilizing confirmatory methods.

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

Analyte	Qualitative Only?	Reported Concentration	Uncertainty	Units
_____	<input type="checkbox"/>	_____	_____	( _____ )
Date(s) Analysis Performed on Analyte: _____				
<b>Raw Data (ng/mL):</b>				
_____	_____	_____	_____	_____

**Please return all pages of this data sheet.**

Participant Code:

WebCode:

**Results for Item 3 (continued):**

**3-3.) If quantitative analysis was performed, are the reported concentrations for Item 3:**

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

**3-4.) Please check the methods used to analyze Item 3 by selecting whether each method used was for screening, confirmatory testing and/or quantitation.**

<u>Method Used</u>	<u>Screening</u>	<u>Confirmatory</u>	<u>Quantitation</u>
Immunoassay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LC/MS/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**3-5.) Additional Comments for Item 3**

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

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**Please return all pages of this data sheet.**

Participant Code:

WebCode:

**Date Samples Received:** \_\_\_\_\_

**Additional Comments on Test**

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<p><b><u>Return Instructions:</u></b> Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>May 14, 2018</i> to be included in the report. Emailed data sheets are not accepted.</p>	<p>Participant Code: ONLINE DATA ENTRY: <a href="http://www.cts-portal.com">www.cts-portal.com</a></p>
<p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: <a href="mailto:forensics@cts-interlab.com">forensics@cts-interlab.com</a> <a href="http://www.ctsforensics.com">www.ctsforensics.com</a></p>	<p>FAX: +1-571-434-1937 MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>

**Please return all pages of this data sheet.**

Collaborative Testing Services ~ Forensic Testing Program

**RELEASE OF DATA TO ACCREDITATION BODIES**

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **18-5671: Urine Drug Analysis**

This release page must be completed and received by **May 14, 2018** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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 Certificates here)

**A2LA** Certificate No. \_\_\_\_\_

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

Signature and Title \_\_\_\_\_

Laboratory Name \_\_\_\_\_

Location (City/State) \_\_\_\_\_

<b>Accreditation Release</b>	
<b>Return Instructions</b>	
<i>Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.</i>	<i>Questions? Contact us 8 am-4:30 pm EST Telephone: +1-571-434-1925 email: forensics@cts-interlab.com</i>

**Please return all pages of this data sheet.**