



Drug Analysis

Test No. 17-502 Summary Report

This test was sent to 656 participants. Each sample pack consisted of two questioned samples containing powder substances which participants were requested to analyze. Data were returned from 566 participants (86% response rate) 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 pack consisted of two items. Item 1 contained 240mg of powder consisting of approximately 20% tramadol hydrochloride and 80% lactose. Tramadol hydrochloride is a Schedule IV narcotic controlled substance in the United States. Item 2 contained 300mg of powder consisting of lactose.

SAMPLE PREPARATION-

The tramadol hydrochloride in Item 1 was a pure powder that was combined with lactose. The two powders were mixed thoroughly to ensure homogeneity. The lactose in Item 2 was a pure powder.

ITEM 1 (PREPARATION): Approximately 240mg of the powder containing tramadol hydrochloride was weighed out and deposited into a glassine bag which was folded and secured with a label. The folded glassine bag was placed into a small zip top bag. The small zip top bag was heat sealed and then placed into a pre-labeled envelope.

ITEM 2 (PREPARATION): Approximately 300mg of the lactose powder was weighed out and deposited into a glassine bag which was folded and secured with a label. The folded glassine bag was placed into a small zip top bag. The small zip top bag was heat sealed and then placed into a pre-labeled envelope.

SAMPLE PACK ASSEMBLY: One of each of the Item 1 and Item 2 envelopes was placed into a larger pre-labeled sample pack envelope.

VERIFICATION: The above substances were identified by predistribution laboratories, who used the following combined list of techniques: color tests, UV, GC, GC/MS, and FTIR.

Summary Comments

This test was designed to allow participants to assess their proficiency in the qualitative analysis of questioned samples that may contain controlled substances. Item 1 contained a powder consisting of lactose and approximately 20% tramadol hydrochloride. Tramadol hydrochloride is a Schedule IV narcotic controlled substance in the United States. Item 2 contained a powder consisting of lactose (See Manufacturer's Information for preparation details).

Of the 566 participants that reported results for Item 1, 554 (97.9%) reported tramadol. Eleven participants reported "No controlled substance detected/identified", but all mentioned tramadol in the additional comments. Tramadol is not a controlled substance in all jurisdictions. The remaining participant reported "Controlled Substance(s) detected/identified", but did not report the name of the controlled substance. For Item 2, 560 (98.9%) of 566 participants reported "No controlled substance detected/identified". Of the remaining participants, four reported "Controlled Substance(s) detected/identified", but did not report the name of the controlled substance and two reported tramadol.

The most common examination methods utilized for both Items include GC/MS, color tests, and FTIR.

Drug Analysis (Item 1)

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
23T4YD	Material containing Tramadol - Federal Schedule IV controlled substance (a non-controlled substance in [State]).	3GYMVH	Tramadol
24ZFGF	Tramadol	3JXRR6	Tramadol
28JHHT	Tramadol	3KNQ63	Tramadol
29TCB8	No controlled substance detected/identified; Sample contains tramadol hydrochloride and lactose.	3MUM2R	tramadol
29VACV	Tramadol	3P9C9G	Tramadol
29XRQU	Tramadol	3PWHTG	Tramadol (salt form not determined)
2ARM6P	Tramadol	3TFDQ8	Tramadol
2CDE3D	Tramadol	3V6M3U	Tramadol
2H29V6	Tramadol	3WGLUH	Tramadol
2HGGVT	Tramadol	44ENHE	Tramadol
2JZ8ED	Tramadol	46L3T2	Tramadol
2K8PBN	Tramadol	46WD72	Tramadol
2V782Q	Tramadol	4BDANG	Tramadol
2VBNY	Tramadol	4BUEVU	Tramadol
2XTYYE	Tramadol	4BWYPN	Tramadol
32AT6D	Tramadol	4CB9ZA	Tramadol
33KBQ4	Tramadol	4CQRK8	Tramadol
34RYFU	Tramadol	4FAMJT	Tramadol
376DGA	tramadol	4LEEWW	Tramadol
37NAXG	Tramadol	4M36RA	Tramadol
39RUVN	Tramadol	4MNHFM	Tramadol
3ANJTQ	Tramadol	4PWN2N	tramadol
3AY7HR	Tramadol	4WECFQ	Tramadol
3DA6WY	Tramadol	4WUDJT	Tramadol schedule IV
3G9L89	Tramadol	4WVBTN	Tramadol detected, no reference material available
		4Y3MBP	Tramadol
		66PNEA	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
67ATFR	Tramadol	7EM69J	No controlled substance detected/identified; Tramadol was detected in Item 1a.
67DFTY	TRAMADOL	7G8X2D	Tramadol
6C6DTN	Indicates tramadol. No reference material available.	7KBMQZ	Tramadol
6DDMQM	Tramadol	7KPBP8	Tramadol
6DHYP6	Tramadol	7KYU6Y	Tramadol
6DVR7Z	Tramadol	7T3C2A	Tramadol
6EBUCD	Tramadol	7UFWRY	Tramadol
6J42L9	Tramadol	7XVBDJ	Tramadol
6JHLYQ	Tramadol	7XXWD7	Tramadol
6JYVWY	Tramadol	7YD32W	tramadol
6N39DX	Tramadol	82EU6T	Tramadol
6NWZ3P	Tramadol	836UAR	Tramadol
6NZFHB	tramadol	84LUNE	Tramadol
6PKRGF	tramadol (schedule 4 of the controlled substances act)	84YF3H	Tramadol
6Q3JRK	Tramadol	86WUMU	Tramadol
6QM6VW	Tramadol	87QPY6	Tramadol
6QXFZE	Tramadol	8843VE	Tramadol
6RYU3F	Tramadol	88LZ3K	TRAMADOL - detected. No reference material available for identification.
6UKMVA	Tramadol	8ANBNM	Tramadol
6VH4VD	Tramadol	8DRM42	Tramadol (Federally)
6VYA6C	Tramadol (Schedule IV)	8G6L2M	Tramadol - Sch IV
6XP844	Tramadol (Federally controlled)	8HLP3U	Tramadol
73VDQZ	Tramadol	8JU449	Tramadol
749XHA	Tramadol	8L364L	tramadol
74N7LJ	No controlled substance detected/identified	8L3ZQX	Tramadol
77UUZ9	Tramadol	8RBEJV	Tramadol
7C4WFB	tramadol	8TJRYB	Contains Tramadol
7DYH6V	Tramadol		

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
8UVGA2	Tramadol - Federally controlled substance but not controlled by [State] statutes.	AAJA2R	Item 1 to contain Tramadol
8UZL4R	Tramadol	AAXUPV	Tramadol
8VANX4	Tramadol	ABPYX9	Tramadol
8WNFKT	Tramadol	AG3NUP	Tramadol - a non-controlled substance in [State]. Tramadol is a Federal Schedule IV controlled substance.
8YBUDA	Tramadol	AGDMRE	Tramadol - A non-controlled substance in [State]; however, Tramadol is a Federal Schedule IV controlled substance.
8Z6PR6	Tramadol	AGF6YQ	TRAMADOL
93KEQ9	Tramadol	AM23KR	Tramadol
97LHFA	Tramadol	AM8AUF	No controlled substance detected/identified
98YYQ3	Tramadol	ANFT8G	Tramadol hydrochloride, Lactose
996LZZ	Tramadol	ANLRXK	Tramadol
99WFVC	Tramadol	AP7WZN	TRAMADOL
9A6HVP	Tramadol, a schedule IV controlled narcotic substance	AQPP9D	Contains Tramadol
9BLMFA	Tramadol	ATDWUV	Tramadol
9CAEUJ	Tramadol Hydrochloride	AV2K3P	Tramadol
9EFRNJ	(Tramadol)	AVF7CR	Tramadol
9GYXVT	Tramadol	AVX2VD	Tramadol
9HE4L6	Tramadol; Federal Schedule IV; State of [State]=Misdemeanor	AZBZAT	Tramadol
9JVXME	Tramadol	B7FU8U	Tramadol
9K66P8	Tramadol	B7FZG2	Tramadol
9MAVWM	Tramadol	B7GNQZ	Tramadol
9U8CJL	Tramadol found	B8MAEZ	Tramadol (CIV)
9V4UCB	TRAMADOL WITH LACTOSE	BAG2K6	Tramadol
9W26M6	Tramadol	BCHCX7	Tramadol
9X9FB9	Tramadol	BDKNCN	Tramadol
A292LC	Tramadol	BHUZ9N	Tramadol
A2AUJJ	Tramadol	BKXQF4	Tramadol (Schedule IV)
A8FH2R	Tramadol		

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
BNFTKN	tramadol	DH7FCF	Tramadol
BX7KN9	Tramadol	DJWJ6M	tramadol
BYJ3TY	Tramadol identified	DLNFRW	Tramadol
C44RKM	tramadol - Schedule IV (federal), Non-controlled ([State])	DLZEM6	Tramadol
C6LLJB	Tramadol	DPFYJT	Tramadol
C8A9Z6	Tramadol	DPHNPB	No controlled substance detected/identified
CAQG3B	Tramadol	DUBM3L	Tramadol
CCMNXA	Tramadol	DW4G4V	Tramadol
CNA82D	Tramadol	DWKNDK	Tramadol
CNUTPX	Tramadol	DZLRYE	Tramadol. No confirmatory tests were performed.
CQFLEK	Tramadol	E24HCN	Tramadol
CTPDZ9	Tramadol	E2836X	Tramadol
CUW4HN	Tramadol hydrochloride	E4JJW4	Tramadol.
CVWUWJ	TRAMADOL	E4WBCE	Tramadol
CW73YC	Tramadol, see additional comments.	E6AW9U	tramadol
CW7TE8	Tramadol	E7QQA6	Tramadol
CXE4YP	On analysis, I found Item 1 to contain Tramadol.	EBXJ2E	Tramadol
CYD64V	Tramadol	ED44PE	Tramadol
CZJRCT	Tramadol	EDJA3J	Tramadol
D6RJYC	Tramadol	EF9GMF	Tramadol, a Schedule IV Controlled Substance was detected.
D77WPU	Tramadol	EFPUQJ	Tramadol
D78VKN	Tramadol	EG47M4	Tramadol
D8JFLK	Tramadol	EHGHWU	Tramadol
D8KGFJ	Tramadol	EJQRM7	Tramadol
DDRW3L	Tramadol	ELBUZ6	Tramadol
DE244T	Tramadol	ENZ2K2	Tramadol
DE8VTQ	Tramadol	ER4RX9	Tramadol
DGKZND	Tramadol		

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
ETB6FA	No controlled substance detected/identified; Tramadol	GMHT8J	Item 1 found to contain Tramadol
ETDULT	Tramadol	GPNB9Z	Tramadol
EU6XBT	Tramadol	GPQNMG	Tramadol - a non controlled substance in [State]. Tramadol is a Federal Schedule IV controlled substance. Net weight of material- 0.25 (\pm 0.02) gram.
EUCT62	Tramadol	GQ4DUZ	Tramadol
EY8HUK	tramadol	GQEF28	Tramadol
EZJDDR	Tramadol	GVB4HE	Tramadol
F2RWRU	Tramadol	GVDMTW	tramadol
F3GEF9	Tramadol	GVELNP	Tramadol
F4ZWL	Tramadol	GVJRGL	Tramadol
F6PC23	Contains Tramadol	GYBJN	Tramadol
F9UWBW	Tramadol	GZ9E2T	Tramadol
FAPECX	Tramadol	GZRD3X	Tramadol
FB826J	Tramadol	GZU39F	tramadol
FEP2MK	Tramadol	H3TPD4	Tramadol IV
FEXZZU	Tramadol	H6HYKJ	No controlled substance detected/identified
FHBYYG	Tramadol	HAPK9G	Tramadol
FHCQWP	Tramadol	HCEQTD	Tramadol Hydrochloride
FUAKDT	Tramadol	HDBHMY	Tramadol
FWAYWC	Tramadol detected. No reference material available.	HJ4DXJ	Tramadol (CIV)
FXP6AF	Tramadol	HM4JCP	Tramadol
FZA3QJ	Tramadol- Fed. Schedule IV; Non-controlled in [State].	HMDMR9	Tramadol
FZE969	Tramadol	HQCAZ4	Tramadol/ Schedule IV
G3YF6V	Tramadol	HQGHCW	Tramadol
G8P2P4	tramadol detectado en el punto 1	HQZ2JP	Tramadol
GGC7PF	Tramadol	J3R4LH	Tramadol
GHB3K6	TRAMADOL.	J79LMY	Controlled substance(s) detected/identified
GHL8H2	Tramadol. Controlled. Whit. UNODC List IV	J7WMTQ	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
J9UCN4	Contains Tramadol	K9GX3F	Tramadol
JA7YE6	No controlled substance detected/identified	KA2YTV	Tramadol
JAQMND	Tramadol	KA97UW	Tramadol
JB4DVW	tramadol	KAMPN2	Tramadol
JC8BPC	Tramadol	KCNPUZ	No controlled substance detected/identified; we have found tramadol and lactose
JD87PV	Tramadol	KERHNY	Tramadol
JE4QB9	Tramadol	KGTA2Y	Tramadol
JHP9UE	Tramadol	KK8WL6	Tramadol
JJZ8TU	Tramadol	KKKDUD	Tramadol
JK9E2P	Tramadol	KLGWQC	Tramadol
JNM4F7	Tramadol	KRQ3HC	Tramadol
JP6WPG	Tramadol - Schedule IV (NC in [State])	KRQ3KX	Tramadol
JP6XAE	Tramadol	KTGAGF	TRAMADOL
JPM3TD	Tramadol	KWDWB4	No controlled substance detected/identified
JQ2CYT	Tramadol	KZCAW8	Tramadol, CIV
JTY2V7	tramadol	KZHDWE	Tramadol - Schedule IV Federally CS (Not controlled in [State])
JV93ZD	Tramadol	KZXWEQ	Tramadol
JVV9LX	Tramadol	KZYP4X	Tramadol
JWFC3H	Tramadol	L4PJE4	Tramadol Hydrochloride
JY8ACB	Tramadol	L7K2TC	Tramadol
JYLYD2	Tramadol/ Schedule IV	LCZVDM	Tramadol Hydrochloride
JZ6HX2	Tramadol	LD66W9	Tramadol
JZ884J	Tramadol	LGHZHX	Tramadol
K4EBYQ	Tramadol	LLCTLZ	Tramadol
K4TMQ4	Tramadol	LQM4C9	Tramadol
K74JDL	Tramadol	LR2G9J	Tramadol
K7JYCU	Tramadol	LRGRWP	Tramadol
K8EJ6L	Tramadol	LRHVDVQ	Tramadol
K8LDDV	Tramadol		

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
LVDFBC	Tramadol Found C-IV	N7DN9M	Tramadol
LX8TLJ	Tramadol	N7F97N	Tramadol
LZDFW3	Tramadol	NA7YV7	Tramadol
LZEBKE	Tramadol	NAEHE6	Tramadol
LZHTQQ	Tramadol	NAVPBL	Tramadol Hydrochloride
M2XVF9	Tramadol HCl	NCV6F4	Tramadol
M332BB	Tramadol	NHMABT	TRAMADOL found
M3HH9P	tramadol	NL82XG	tramadol
M3LZBU	Tramadol	NLKU8P	Tramadol
M6KGGW	Tramadol	NNR7WD	Tramadol
M7V8L8	Tramadol	NUZETA	Tramadol
MG3XCP	Tramadol - CDS IV	NWAEXG	Tramadol
MGDY24	Tramadol	NXX4NN	Tramadol
MGFN8L	tramadol	NZP2GN	Tramadol
MJ4XGM	Tramadol	P6CCLJ	Tramadol
MKHDXA	TRAMADOL	P6WWPV	Tramadol
MMY2X9	Tramadol	PAAF7C	Tramadol
MQNB4T	Tramadol	PAM4D6	Tramadol
MTUJML	Tramadol	PCX62P	Tramadol
MVKNBQ	Tramadol CIV	PFEDKH	Tramadol chlorhydrate : 21,3 %; Lactose : 78,5 %
MWBR4X	Tramadol	PHNLLF	Tramadol
MX7KTP	Tramadol	PHXMCU	Tramadol
MZC6FP	Tramadol	PJUZW3	Tramadol
N2G2EY	Tramadol	PL7L2V	Tramadol
N47BLE	No controlled substance detected/identified; the controlled substance found is tramadol	PLGQX7	Tramadol
N4JYM7	Tramadol	PXDJZ4	Tramadol
N4QYU2	Tramadol	PY4V73	TRAMADOL
N7CUJF	Tramadol	Q38RNB	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
Q6NFNA	Laboratory analysis determined the presence of Tramadol, a Schedule IV controlled substance. Alpha Lactose, a non controlled substance, was also present in the sample.	RRUJ22	Tramadol
Q8DM97	Tramadol	RRX4RP	Tramadol Hydrochloride.
QCPH2M	Tramadol	RU7ZRL	Contains Tramadol
QK2RG3	Tramadol	RYKNCJ	Tramadol
QKAPUD	Tramadol	RZPCH9	Tramadol
QKTAYK	Tramadol (Schedule IV) was identified in Exhibit 1 (white powder).	RZUHB4	tramadol
QL2KK3	Tramadol	T3BKYM	Tramadol
QL64JQ	No controlled substance detected/identified	T3E37X	Tramadol
QQ7PP8	Tramadol, the salt form was not determined	T3XLB6	Tramadol
QQNEB9	TRAMADOL	T6KE9T	Contains tramadol
QY8L6Y	Tramadol	T6KGXX	Tramadol is present.
QYMV7C	Tramadol	T6LAV7	Tramadol - Federal Schedule IV Controlled Substance. A non-controlled substance in [State].
QZUC4H	Tramadol	T82WW4	Tramadol
R2Q3X4	Item 1 was found to contain tramadol.	T8QUNC	tramadol
R6TYKC	Tramadol	T94F8L	Tramadol
R8YE3G	tramadol (Federal only)	T9Y8UT	Tramadol/ Schedule IV
R97UAM	Tramadol	TA2LWT	Tramadol
RACKW4	Tramadol	TAJJBE	Tramadol (Controlled federally)
RAGJNT	Tramadol	TAXAW4	Tramadol
RB77PU	the controlled substance found is tramadol	TDC2VJ	Tramadol (salt form not determined)
RCTFX4	tramadol (Schedule IV)	TER8NF	Tramadol
RGG8WK	No controlled substance detected/identified	TF2A3Y	Tramadol
RJPF76	Tramadol	TF8FQN	Tramadol
RMQC4C	Tramadol	TFXMN7	Tramadol
RPDV23	Tramadol	TGQJ79	Tramadol
RRGVWU	Tramadol	TKD7TU	Tramadol
		TLPVBL	Tramadol
		TLQG9M	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
TTUMNP	Contains Tramadol. As of 9/1/2017, a penalty group 3 substance.	VCBUGW	Tramadol
TYXLZZ	Tramadol	VG2A64	Tramadol, Schedule IV
TZ9HHX	Tramadol	VH23A3	Tramadol (C-IV)
U2JQ9X	TRAMADOL	VH7NUP	Tramadol
U6Z8DV	tramadol	VKXCZ2	Tramadol
U7A2AV	Tramadol	VMQM8R	the controlled substance found is tramadol
U86R4G	Tramadol	VMVUKK	Tramadol
UAU4Z2	Tramadol	VP2E8K	Tramadol
UCJBGH	Tramadol	VR6BTA	Tramadol
UERDJF	Tramadol	VRUG7L	Tramadol
UH6CH3	Tramadol	W88KP	Substance contains tramadol
UKVEJA	Tramadol	W4ZR93	Tramadol
UL3NLF	Tramadol	W76K32	Tramadol
ULJ3R4	Tramadol	W79367	Tramadol (C-IV) was identified in Exhibit 1 (white powder).
UM2QNN	No controlled substance detected/identified; Pharmaceutical tramadol was indicated	W7PW7F	Tramadol
UMY98T	Tramadol	W9VGXM	TRAMADOL
UPLXDR	No controlled substance detected/identified	WAZ6Z6	No controlled substance detected/identified; Item 1 was found to contain tramadol
UQY9QY	Tramadol Hydrochloride	WCR9LK	Tramadol
UT99XR	Tramadol	WCUX7A	tramadol - federally controlled
UVETKR	Tramadol was detected by UV and GCMS.	WD6XU4	Tramadol Hydrochloride
UVFLJY	Tramadol - Controlled Substance	WGZKPD	Tramadol
V2VMD3	Tramadol	WHHP8B	Tramadol
V2Y9QA	Tramadol	WPZTK7	Tramadol
V38L7Q	Tramadol	WTH69A	Tramadol (Salt form not determined)
V3JERR	Tramadol	WTLV86	Tramadol
V4ZDAW	Tramadol	WV29TZ	Tramadol
V7QDLY	Tramadol	WVMVAM	Tramadol
V9BEEZ	Tramadol	WVNKNR	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
WWC3GD	Tramadol	XX84YN	tramadol
WXC3UK	Tramadol HCl	XZWC76	Tramadol
X4T37N	Tramadol	Y2MY9K	Tramadol
X6NECP	No controlled substance detected/identified	Y3EZWW	Tramadol
X97RYY	No controlled substance detected/identified; Analysis of powder indicated the presence of tramadol based on library search only. No reference material available in our laboratory. Tramadol is not a controlled drug under [Country] legislation	Y4BKTV	Tramadol
		Y8ALAR	Tramadol
		Y8N8KE	Tramadol
		Y92U6E	Tramadol
X97RZJ	Tramadol	YBUG7H	Tramadol
XBFQA8	TRAMADOL	YC6E68	Tramadol
XCC9F3	Tramadol	YDWLBP	Tramadol
XEP9X2	Tramadol	YGYJLH	Tramadol
XETNGU	Tramadol	YJF4G	Tramadol
XF6GGN	Tramadol	YJWWDN	Tramadol
XFTHME	Tramadol	YKTDPL	Tramadol
XG2NTN	Tramadol/ Schedule IV	YL3KQT	Tramadol
XHX736	tramadol (schedule IV)	YM4CYM	Tramadol
XJPFM7	Tramadol	YQG9CB	Tramadol
XK92UN	Tramadol	YWA4KA	tramadol
XKYBEP	Tramadol	YXPBWJ	Tramadol
XL2UP8	Tramadol	YY3WJZ	Tramadol
XLB4ZQ	No controlled substance detected/identified; Tramadol	YYB3NN	Tramadol Schedule IV
XLT9JP	Tramadol	YYFN9B	tramadol
XLVLEY	Tramadol	YYXDWW	Tramadol
XPTCBC	Tramadol	YZL3M4	Tramadol
XVHQKC	Tramadol	Z22RF8	Tramadol
XVX4P2	material containing Tramadol - a non-controlled substance in [State]. Tramadol is a Federal Schedule IV controlled substance.	Z26AMJ	Tramadol
		Z6Y9T2	Tramadol
		Z94R4G	Tramadol

TABLE 1a - Item 1 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
Z9ERM4	Tramadol		
Z9Y938	Tramadol		
Z9ZAW6	Tramadol		
ZF4C27	Tramadol		
ZFBJA	Tramadol was identified, C-IV.		
ZG77NP	tramadol		
ZG9VW8	Tramadol		
ZH8UEF	Tramadol		
ZJZYK9	Tramadol - Federal Schedule IV drug		
ZNA79R	Tramadol indicated. No reference material available.		
ZNVJYP	Tramadol		
ZQC3MZ	Tramadol		
ZTPDWQ	No controlled substance detected/identified		
ZUGLRN	Tramadol		
ZUXXBE	Tramadol		
ZVYCDE	Tramadol		
ZXXVXZ	Tramadol		
ZYAHKK	Contains Tramadol (presumptive identification only)		
ZYRKDE	Tramadol		
ZYUAJX	Tramadol		
ZZ4J8N	Tramadol indicated		

<i>Response Summary - Item 1</i>	
Participants: 566	
Tramadol hydrochloride:	554
No controlled substances:	11
Other:	1

Examination Methods (Item 1)

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
23T4YD	✓	✓						✓		Retention time comparison to standard
24ZFGF		✓					✓	✓		
28JHHT		✓						✓		DSA-TOF
29TCB8	✓	✓					✓	✓	✓	Anion tests
29VACV	✓	✓						✓		
29XRQU	✓							✓		
2ARM6P					✓			✓		
2CDE3D						✓		✓		
2H29V6		✓						✓	✓	DART/TOF-MS, Weight determination
2HGGVT								✓		
2JZ8ED	✓	✓				✓		✓		
2K8PBN	✓	✓			✓			✓		
2V782Q					✓			✓		
2VBNY		✓						✓		Retention Time used for confirmation
2XTYYE	✓							✓		
32AT6D	✓							✓		
33KBQ4	✓							✓		
34RYFU	✓							✓		
376DGA	✓	✓				✓		✓		
37NAXG								✓		Handheld Raman (TruNarc)
39RUVN	✓							✓		
3ANJTQ	✓							✓		
3AY7HR		✓						✓		
3DA6WY	✓							✓		
3G9L89	✓							✓		
3GYMVH	✓							✓		
3JXRR6								✓		GC - Retention time
3KNQ63	✓	✓				✓		✓		
3MUM2R		✓						✓		
3P9C9G					✓			✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
3PWHTG	✓			✓				✓		Retention time match on GC/MS with a known reference sample of tramadol. A variety of samples sizes and methods were used for analysis.
3TFDQ8	✓	✓						✓		Retention Time
3V6M3U	✓							✓		
3WGLUH	✓	✓				✓		✓		
44ENHE		✓					✓	✓		
46L3T2		✓						✓		LC/MS/MS, HRMS
46WD72	✓					✓		✓		
4BDANG								✓		
4BUEVU	✓	✓			✓			✓		
4BWYPN	✓				✓			✓		
4CB9ZA	✓	✓				✓		✓		
4CQRK8								✓		GC-FID
4FAMJT	✓				✓			✓		
4LEEWV	✓							✓		
4M36RA	✓							✓		
4MNHFM					✓			✓		GC-FTIR
4PWN2N	✓	✓						✓		
4WECFQ	✓				✓			✓		
4WUDJT	✓							✓		
4WVBTN	✓							✓		
4Y3MBP	✓	✓			✓			✓		
66PNEA	✓	✓			✓			✓		
67ATFR	✓							✓		
67DFTY								✓		
6C6DTN	✓							✓		
6DDMQM	✓							✓		
6DHYP6		✓						✓		LCMS
6DVR7Z		✓						✓		LC - MS (Accurate Mass + MS/MS)
6EBUCD	✓	✓					✓	✓		
6J42L9	✓	✓				✓		✓		
6JHLYQ								✓		
6JYVWY								✓		UPLC-QTOFMS

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
6N39DX	✓							✓		
6NWZ3P	✓				✓			✓		
6NZFHB	✓							✓		
6PKRGF	✓	✓						✓		
6Q3JRK	✓							✓		
6QM6VW	✓							✓		
6QXFZE	✓							✓		
6RYU3F		✓				✓		✓		
6UKMVA	✓					✓		✓		
6VH4VD								✓		Raman
6VYA6C	✓				✓		✓	✓		DART-TOF
6XP844	✓	✓						✓		
73VDQZ	✓	✓						✓		
749XHA	✓							✓		
74N7LJ	✓							✓		
77UJZ9	✓							✓		
7C4WFB	✓	✓						✓		
7DYH6V	✓	✓						✓		
7EM69J	✓			✓			✓	✓		
7G8X2D	✓	✓						✓		
7KBMQZ	✓							✓		
7KPBP8	✓	✓						✓		
7KYU6Y	✓					✓		✓		
7T3C2A					✓			✓		
7UFWRV		✓	✓					✓		
7XVBDJ	✓							✓		
7XXWD7	✓							✓		
7YD32W	✓							✓		
82EU6T	✓							✓		
836UAR	✓							✓		
84LUNE	✓	✓				✓		✓		
84YF3H					✓			✓		
86WUMU	✓	✓				✓		✓		
87QPY6			✓					✓		
8843VE		✓				✓		✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
88LZ3K	✓							✓		
8ANBNM		✓						✓		
8DRM42		✓						✓		Retention Time by GC/MS
8G6L2M		✓						✓		
8HLP3U	✓							✓		
8JU449	✓				✓			✓		DART-TOF
8L364L		✓						✓		
8L3ZQX	✓							✓		
8RBEJV	✓							✓		
8TJRYB	✓	✓				✓		✓		
8UVGA2					✓			✓		GC-Retention Time
8UZL4R	✓	✓				✓		✓		
8VANX4								✓		LC/MS
8WNFKT								✓		
8YBUDA	✓							✓		Handheld Raman Spectroscopy
8Z6PR6	✓							✓		Raman
93KEQ9	✓	✓						✓		
97LHFA	✓	✓				✓		✓		
98YYQ3	✓	✓						✓		
996LZZ		✓						✓		
99WFVC	✓							✓		
9A6HVP	✓							✓		
9BLMFA	✓	✓				✓		✓		
9CAEUJ	✓	✓						✓		
9EFRNJ		✓					✓	✓		
9GYXVT								✓		
9HE4L6	✓					✓		✓		
9JVXME	✓	✓				✓		✓		
9K66P8	✓				✓		✓	✓		DART-TOF MS
9MAVWM		✓						✓		
9U8CJL	✓	✓				✓		✓		
9V4UCB	✓	✓						✓		
9W26M6		✓				✓		✓		
9X9FB9	✓							✓		
A292LC	✓	✓				✓		✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
A2AUJJ	✓							✓		
A8FH2R	✓							✓		
AAJA2R	✓							✓		
AAXUPV	✓							✓		
ABPYX9								✓		NMR
AG3NUP	✓	✓		✓				✓		
AGDMRE	✓	✓		✓				✓		
AGF6YQ	✓							✓		
AM23KR								✓		
AM8AUF	✓							✓		
ANFT8G		✓						✓		
ANLRXK	✓	✓						✓		
AP7WZN								✓		
AQPP9D	✓					✓		✓		
ATDWUV					✓			✓		GC-FID
AV2K3P	✓							✓		Weight determination
AVF7CR	✓							✓		
AVX2VD	✓							✓		
AZBZAT								✓		
B7FU8U	✓				✓			✓		ATR
B7FZG2		✓					✓	✓		
B7GNQZ								✓		
B8MAEZ	✓							✓		
BAG2K6	✓	✓						✓		LC/MS (ion trap)
BCHCX7	✓							✓		
BDKNCN	✓				✓			✓		
BHUZ9N								✓		
BKXQF4	✓	✓						✓		
BNFTKN	✓						✓	✓		
BX7KN9	✓					✓		✓		
BYJ3TY		✓						✓		LC/MS
C44RKM	✓	✓						✓		
C6LLJB	✓					✓		✓		
C8A9Z6		✓				✓	✓	✓		
CAQG3B	✓							✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
CCMNXA	✓	✓						✓		
CNA82D	✓	✓						✓		
CNUTPX	✓	✓						✓		
CQFLEK								✓		
CTPDZ9	✓	✓				✓		✓		
CUW4HN	✓						✓		✓	Raman Spectroscopy
CVWUWJ		✓						✓		
CW73YC	✓							✓		
CW7TE8						✓	✓	✓		
CXE4YP	✓							✓		
CYD64V		✓						✓	✓	Direct analysis in real time/time-of-flight mass spectrometry
CZJRCT		✓						✓		LC - MS/MS
D6RJYC							✓	✓		
D77WPU		✓			✓			✓		
D78VKN	✓	✓						✓		
D8JFLK			✓					✓		
D8KGFJ	✓				✓			✓		
DDRW3L								✓		weight determination
DE244T	✓	✓			✓					
DE8VTQ		✓						✓		LC/MS
DGKZND	✓	✓						✓		
DH7FCF	✓				✓			✓		
DJWJ6M	✓							✓		
DLNFRW	✓							✓		
DLZEM6	✓	✓				✓		✓		
DPFYJT	✓							✓		
DPHNPB	✓							✓		
DUBM3L	✓	✓						✓		
DW4G4V	✓	✓				✓		✓		
DWKNDK	✓							✓		GC/FID
DZLRYE	✓							✓		
E24HCN	✓							✓		Raman
E2836X		✓						✓		
E4JJW4	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
E4WBCE								✓		Raman
E6AW9U	✓							✓		
E7QQA6	✓					✓		✓		
EBXJ2E	✓	✓						✓		
ED44PE		✓						✓		
EDJA3J	✓	✓					✓	✓		
EF9GMF		✓						✓		
EFPUQJ	✓							✓		Net Weight
EG47M4								✓		
EHGHWU	✓	✓						✓		
EJQRM7	✓	✓				✓		✓		
ELBUZ6	✓	✓						✓		Lactosa
ENZ2K2	✓	✓			✓			✓		
ER4RX9	✓							✓		
ETB6FA							✓	✓		
ETDULT	✓	✓			✓			✓		
EU6XBT	✓	✓						✓		
EUCT62	✓					✓		✓		
EY8HUK	✓			✓			✓	✓		
EZJDDR	✓				✓			✓		
F2RWRU	✓	✓						✓		
F3GEF9	✓							✓		
F4ZWXL	✓	✓						✓		
F6PC23	✓	✓				✓		✓		
F9UWBW	✓							✓		
FAPECX	✓							✓		
FB826J	✓	✓				✓		✓		
FEP2MK								✓		Raman spectroscopy
FEXZZU	✓							✓		
FHBYYG								✓		
FHCQWP	✓	✓			✓			✓		
FUAKDT	✓							✓		
FWAYWC	✓							✓		
FXP6AF	✓							✓		
FZA3QJ	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
FZE969	✓	✓						✓		
G3YF6V	✓	✓						✓		
G8P2P4	✓							✓		
GGC7PF	✓	✓			✓			✓		
GHB3K6						✓		✓		
GHL8H2	✓	✓						✓		
GMHT8J	✓							✓		
GPNB9Z								✓		
GPQNMG	✓	✓						✓		
GQ4DUZ	✓					✓		✓		
GQEF28	✓	✓						✓		
GVB4HE	✓							✓		
GVDMTW	✓	✓						✓		
GVELNP		✓						✓		
GVJRGL	✓	✓				✓		✓		
GYBJN	✓					✓		✓		
GZ9E2T	✓	✓						✓		
GZRD3X	✓	✓				✓		✓		
GZU39F	✓	✓			✓			✓		
H3TPD4	✓	✓			✓			✓		
H6HYKJ		✓						✓		
HAPK9G	✓							✓		Weight Analysis
HCEQTD		✓						✓		
HDBHMY	✓							✓		
HJ4DXJ	✓							✓		
HM4JCP					✓			✓		[GC: "Rt"]
HMDMR9	✓							✓		
HQCAZ4	✓	✓						✓		
HQGHCW	✓							✓		
HQZ2JP	✓							✓		
J3R4LH								✓		
J79LMY	✓					✓		✓		
J7WMTQ								✓		LC/MS
J9UCN4	✓	✓				✓		✓		
JA7YE6	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
JAQMND	✓							✓		
JB4DVW	✓							✓		
JC8BPC	✓							✓		
JD87PV	✓	✓						✓		
JE4QB9	✓				✓			✓		
JHP9UE	✓			✓			✓	✓		
JJZ8TU	✓				✓			✓		
JK9E2P	✓				✓			✓		FTIR with ATR accessory
JNM4F7	✓	✓						✓		
JP6WPG	✓	✓						✓		
JP6XAE	✓	✓			✓			✓		
JPM3TD	✓							✓		
JQ2CYT								✓		GC/FID
JTY2V7							✓	✓		
JV93ZD	✓	✓			✓			✓		
JVV9LX	✓	✓				✓		✓		
JWFC3H								✓		
JY8ACB	✓							✓		
JYLYD2	✓	✓						✓		
JZ6HX2		✓				✓		✓		
JZ884J	✓							✓		
K4EBYQ	✓							✓		TruNarc Raman
K4TMQ4								✓		LC/MS/MS
K74JDL	✓							✓		
K7JYCU		✓						✓		
K8EJ6L	✓							✓		
K8LDDV	✓	✓						✓		
K9GX3F	✓							✓		
KA2YTV	✓							✓		
KA97UW	✓	✓						✓		
KAMPN2	✓							✓		
KCNPUZ	✓	✓						✓		
KERHNY								✓		
KGTA2Y								✓		TruNarc Raman Spectrometer
KK8WL6	✓				✓			✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
KKKDUD	✓							✓		
KLGWQC	✓							✓		
KRQ3HC	✓	✓			✓			✓		
KRQ3KX	✓					✓		✓		
KTGAGF	✓							✓		
KWDWB4	✓							✓		
KZCAW8	✓	✓						✓		
KZHDWE	✓	✓						✓		
KZXWEQ		✓				✓		✓		
KZYP4X								✓		
L4PJE4		✓						✓		DART
L7K2TC	✓	✓						✓		
LCZVDM	✓	✓						✓		
LD66W9	✓				✓			✓		
LGHZHX	✓					✓	✓	✓		
LLCTLZ	✓	✓			✓			✓		
LQM4C9		✓						✓		
LR2G9J	✓							✓		
LRGRWP	✓							✓		
LRHDVQ	✓							✓		
LVDFBC	✓							✓		
LX8TLJ								✓		GC-FID
LZDFW3	✓							✓		
LZEBKE	✓							✓		portable Raman
LZHTQQ	✓				✓			✓		GC/IR
M2XVF9		✓						✓		Raman
M332BB	✓							✓		
M3HH9P	✓							✓		
M3LZBU	✓							✓		
M6KGGW		✓				✓		✓		
M7V8L8		✓			✓			✓		
MG3XCP	✓	✓			✓			✓		
MGDY24					✓			✓		
MGFN8L	✓							✓		
MJ4XGM	✓	✓								

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
MKHDXA	✓							✓		
MMY2X9	✓							✓		
MQNB4T	✓				✓		✓	✓		DART
MTUJML	✓	✓						✓		
MVKNBQ	✓	✓			✓			✓		
MWBR4X		✓				✓		✓		
MX7KTP	✓					✓		✓		
MZC6FP	✓	✓					✓	✓		
N2G2EY	✓							✓		
N47BLE	✓	✓						✓		
N4JYM7		✓						✓		
N4QYU2	✓	✓			✓			✓		
N7CUJF	✓	✓				✓		✓		
N7DN9M	✓							✓		
N7F97N	✓	✓				✓		✓		
NA7YV7	✓							✓		
NAEHE6	✓				✓			✓		
NAVPL		✓						✓		LC-MS, XRF
NCV6F4	✓							✓		
NHMABT	✓							✓		
NL82XG	✓							✓		
NLKU8P	✓					✓		✓		
NNR7WD								✓		
NUZETA	✓	✓				✓		✓		
NWAEXG	✓							✓		
NXX4NN		✓			✓			✓		
NZP2GN								✓		
P6CCLJ		✓						✓		ESI - MS/MS (Orbitrap)
P6WWPV		✓				✓		✓		
PAAF7C	✓	✓						✓		
PAM4D6		✓						✓		
PCX62P	✓							✓		
PFEDKH	✓		✓					✓		LC/Refractometer
PHNLLF	✓	✓						✓		
PHXMCU	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
PJUZW3	✓	✓						✓		
PL7L2V		✓				✓		✓		
PLGQX7								✓		
PXDJZ4		✓						✓		
PY4V73							✓	✓		
Q38RNB	✓	✓			✓	✓		✓		
Q6NFNA	✓	✓			✓			✓		Raman Spectroscopy
Q8DM97	✓			✓				✓		
QCPH2M	✓	✓						✓		
QK2RG3	✓							✓		
QKAPUD	✓					✓		✓		
QKTAYK		✓	✓					✓		
QL2KK3	✓	✓						✓		
QL64JQ	✓	✓						✓		
QQ7PP8								✓		
QQNEB9								✓		LC-MS/MS
QY8L6Y					✓			✓		
QYMV7C		✓						✓		LC/MS
QZUC4H	✓	✓						✓		
R2Q3X4		✓						✓		
R6TYKC								✓		GC-FID
R8YE3G	✓	✓			✓			✓		
R97UAM	✓							✓		Hand-held Raman Spectroscopy (TruNarc)
RACKW4								✓		
RAGJNT	✓	✓				✓		✓		
RB77PU	✓	✓						✓		
RCTFX4		✓						✓		retention time
RGG8WK		✓	✓					✓		UPLC-PDA, LC-MS
RJPF76	✓	✓			✓			✓		
RMQC4C		✓						✓		LC-MS
RPDV23	✓	✓						✓		
RRGVWU	✓	✓				✓		✓		
RRUJ22								✓		
RRX4RP		✓						✓		Raman
RU7ZRL	✓	✓				✓		✓		Also contains lactose

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
RYKNCJ	✓							✓		GC/IR
RZPCH9	✓							✓	✓	Solubility, Raman
RZUHB4	✓	✓			✓			✓		
T3BKYM						✓		✓		
T3E37X					✓			✓		
T3XLB6	✓							✓		
T6KE9T	✓	✓				✓		✓		
T6KGXX								✓		
T6LAV7	✓	✓		✓				✓		
T82WW4		✓						✓		
T8QUNC								✓		
T94F8L	✓							✓		
T9Y8UT	✓	✓						✓	✓	Solubility, pH
TA2LWT	✓					✓		✓		
TAJBE								✓		Retention Time (GC/MS)
TAXAW4	✓				✓			✓		
TDC2VJ	✓	✓						✓		Handheld Raman Spectrometer
TER8NF	✓	✓						✓		
TF2A3Y	✓							✓		
TF8FQN	✓	✓				✓		✓		
TFXMN7	✓	✓						✓		
TGQJ79								✓		
TKD7TU	✓							✓		
TLPVBL		✓				✓		✓		
TLQG9M	✓	✓				✓		✓		
TTUMNP	✓	✓				✓		✓		
TYXLZZ	✓				✓			✓		
TZ9HHX					✓			✓		
U2JQ9X	✓				✓			✓		
U6Z8DV								✓		
U7A2AV	✓							✓		
U86R4G	✓							✓		
UAU4Z2	✓							✓		
UCJBGH	✓				✓			✓		
UERDJF	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
UH6CH3								✓		
UKVEJA					✓			✓		
UL3NLF		✓						✓		LCMS/ MS ^ 2/ MS ^ 3
ULJ3R4	✓	✓						✓		Weight determination
UM2QNN		✓						✓		
UMY98T	✓	✓						✓		
UPLXDR	✓							✓		Solubility
UQY9QY	✓							✓		Raman Spectroscopy
UT99XR	✓					✓		✓		
UVETKR	✓	✓				✓		✓		
UVFLJY	✓				✓			✓		
V2VMD3	✓				✓			✓		
V2Y9QA								✓		GC-FID
V38L7Q	✓	✓				✓		✓		
V3JERR	✓	✓				✓		✓		
V4ZDAW	✓							✓		
V7QDLY	✓				✓			✓		
V9BEEZ	✓							✓		
VCBUGW	✓	✓						✓		
VG2A64								✓		
VH23A3	✓							✓		
VH7NUP	✓							✓		
VKCXZ2		✓			✓			✓		
VMQM8R	✓	✓						✓		
VMVUKK	✓							✓		
VP2E8K	✓							✓		
VR6BTA	✓	✓			✓			✓		FTIR w/ATR accessory
VRUG7L	✓	✓					✓	✓		
VV88KP	✓	✓				✓		✓		
W4ZR93	✓							✓		
W76K32	✓							✓		
W79367		✓						✓		
W7PW7F	✓				✓			✓		
W9VGXM		✓						✓		
WAZ6Z6	✓							✓		Raman Spectroscopy

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
WCR9LK								✓		
WCUX7A					✓			✓		[GC: "retention time"]
WD6XU4	✓				✓			✓		Raman Spectroscopy
WGZKPD	✓	✓						✓		
WHHP8B	✓							✓		
WPZTK7	✓							✓		
WTH69A	✓	✓						✓		Handheld Raman Spectrometer
WTLV86	✓	✓						✓		
WV29TZ								✓		
WVMVAM								✓		TruNarc
WVNKNR	✓							✓		
WWC3GD		✓						✓		ESI MS (LC-MS orbitrap)
WXC3UK	✓							✓		Raman
X4T37N							✓	✓		
X6NECP	✓							✓		
X97RYY								✓		
X97RZJ	✓	✓						✓		
XBFQA8								✓		
XCC9F3	✓	✓						✓		
XEP9X2								✓		
XETNGU	✓				✓			✓		
XF6GGN	✓	✓				✓		✓		
XFTHME	✓	✓				✓		✓		
XG2NTN	✓	✓						✓		
XHX736	✓	✓						✓		
XJPFM7								✓		
XK92UN	✓	✓						✓		
XKYBEP	✓	✓				✓		✓		
XL2UP8	✓					✓		✓		Balance
XLB4ZQ	✓	✓						✓		
XLT9JP	✓							✓		
XLVLEY	✓							✓		
XPTCBC	✓	✓				✓		✓		
XVHQKC	✓	✓						✓		
XVX4P2	✓	✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
XX84YN	✓							✓		
XZWC76								✓		
Y2MY9K		✓				✓		✓		
Y3EZVV	✓							✓		
Y4BKTV		✓						✓		
Y8ALAR			✓					✓		
Y8N8KE	✓	✓						✓		
Y92U6E	✓	✓				✓		✓		
YBUG7H								✓		Handheld Thermo Scientific TruNarc Raman Spectroscopy
YC6E68	✓							✓		
YDWLBP	✓	✓			✓			✓		
YGYJLH	✓							✓		
YJF4G	✓							✓		
YJWWDN	✓	✓						✓		
YKTDPL	✓	✓						✓		
YL3KQT	✓							✓		
YM4CYM		✓				✓		✓		
YQG9CB								✓		
YWA4KA	✓	✓						✓		
YXPBWJ	✓	✓						✓		
YY3WJZ	✓	✓				✓		✓		
YYB3NN	✓	✓						✓		
YYFN9B	✓							✓		
YYXDWW	✓	✓						✓		
YZL3M4								✓		
Z22RF8	✓							✓		
Z26AMJ		✓				✓	✓	✓		
Z6Y9T2								✓		
Z94R4G	✓							✓		
Z9ERM4		✓	✓					✓		ESI - MS/MS
Z9Y938	✓							✓		
Z9ZAW6	✓							✓		
ZF4C27	✓	✓				✓		✓		
ZFBJA		✓						✓		
ZG77NP		✓						✓		

TABLE 1b - Examination Methods used for Item 1

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
ZG9VV8								✓		
ZH8UEF	✓	✓				✓		✓		
ZJZYK9	✓	✓			✓					
ZNA79R	✓							✓		
ZNVJYP	✓	✓			✓			✓		
ZQC3MZ								✓		
ZTPDWQ	✓							✓		
ZUGLRN	✓							✓		
ZUXXBE	✓							✓		
ZVYCDE	✓	✓						✓		
ZXXVXZ	✓							✓		
ZYAHKK	✓	✓						✓		
ZYRKDE	✓	✓				✓		✓		
ZYUAJX	✓	✓						✓		GC/FID
ZZ4J8N	✓							✓		

Response Summary

Participants	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro
566	400	254	8	8	76	87	26	562	6
Percent	71%	45%	1%	1%	13%	15%	5%	99%	1%

Drug Analysis (Item 2)

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
23T4YD	No controlled substance detected/identified	3JXRR6	No controlled substance detected/identified
24ZFGF	No controlled substance detected/identified	3KNQ63	No controlled substance detected/identified
28JHHT	No controlled substance detected/identified	3MUM2R	No controlled substance detected/identified
29TCB8	No controlled substance detected/identified; Sample contains lactose.	3P9C9G	No controlled substance detected/identified
29VACV	No controlled substance detected/identified	3PWHTG	No controlled substance detected/identified
29XRQU	No controlled substance detected/identified	3TFDQ8	No controlled substance detected/identified
2ARM6P	No controlled substance detected/identified	3V6M3U	No controlled substance detected/identified
2CDE3D	No controlled substance detected/identified	3WGLUH	No controlled substance detected/identified
2H29V6	No controlled substance detected/identified	44ENHE	No controlled substance detected/identified
2HGGVT	No controlled substance detected/identified; Lactose	46L3T2	No controlled substance detected/identified
2JZ8ED	No controlled substance detected/identified	46WD72	No controlled substance detected/identified
2K8PBN	No controlled substance detected/identified	4BDANG	No controlled substance detected/identified
2V782Q	No controlled substance detected/identified	4BUEVU	No controlled substance detected/identified
2VWBNY	No controlled substance detected/identified	4BWYPN	No controlled substance detected/identified
2XTYYE	No controlled substance detected/identified	4CB9ZA	No controlled substance detected/identified
32AT6D	No controlled substance detected/identified	4CQRK8	No controlled substance detected/identified
33KBQ4	No controlled substance detected/identified	4FAMJT	No controlled substance detected/identified
34RYFU	No controlled substance detected/identified	4LEEWV	No controlled substance detected/identified
376DGA	No controlled substance detected/identified	4M36RA	No controlled substance detected/identified
37NAXG	No controlled substance detected/identified	4MNHFM	No controlled substance detected/identified
39RUVN	No controlled substance detected/identified	4PWN2N	No controlled substance detected/identified
3ANJTK	No controlled substance detected/identified	4WECFQ	No controlled substance detected/identified
3AY7HR	No controlled substance detected/identified	4WUDJT	No controlled substance detected/identified
3DA6WY	No controlled substance detected/identified	4WVBTN	No controlled substance detected/identified
3G9L89	No controlled substance detected/identified	4Y3MBP	No controlled substance detected/identified
3GYMVH	No controlled substance detected/identified	66PNEA	No controlled substance detected/identified
		67ATFR	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
67DFTY	No controlled substance detected/identified	7EM69J	No controlled substance detected/identified
6C6DTN	No controlled substance detected/identified	7G8X2D	No controlled substance detected/identified; Lactose
6DDMQM	No controlled substance detected/identified	7KBMQZ	No controlled substance detected/identified
6DHYP6	No controlled substance detected/identified	7KPBP8	No controlled substance detected/identified
6DVR7Z	No controlled substance detected/identified	7KYU6Y	No controlled substance detected/identified
6EBUCD	No controlled substance detected/identified	7T3C2A	No controlled substance detected/identified
6J42L9	No controlled substance detected/identified	7UFWR7	No controlled substance detected/identified
6JHLYQ	No controlled substance detected/identified	7XVBDJ	No controlled substance detected/identified
6JYVWY	No controlled substance detected/identified	7XXWD7	No controlled substance detected/identified
6N39DX	No controlled substance detected/identified	7YD32W	No controlled substance detected/identified
6NWZ3P	No controlled substance detected/identified	82EU6T	No controlled substance detected/identified
6NZFHB	No controlled substance detected/identified; lactose	836UAR	No controlled substance detected/identified
6PKRGF	No controlled substance detected/identified; lactose	84LUNE	No controlled substance detected/identified
6Q3JRK	No controlled substance detected/identified	84YF3H	No controlled substance detected/identified
6QM6VW	No controlled substance detected/identified	86WUMU	No controlled substance detected/identified
6QXFZE	No controlled substance detected/identified	87QPY6	No controlled substance detected/identified
6RYU3F	No controlled substance detected/identified	8843VE	No controlled substance detected/identified
6UKMVA	No controlled substance detected/identified	88LZ3K	No controlled substance detected/identified
6VH4VD	No controlled substance detected/identified	8ANBNM	No controlled substance detected/identified
6VYA6C	No controlled substance detected/identified	8DRM42	No controlled substance detected/identified
6XP844	No controlled substance detected/identified	8G6L2M	No controlled substance detected/identified
73VDQZ	No controlled substance detected/identified	8HLP3U	No controlled substance detected/identified
749XHA	No controlled substance detected/identified	8JU449	No controlled substance detected/identified
74N7LJ	No controlled substance detected/identified	8L364L	No controlled substance detected/identified
77UUZ9	No controlled substance detected/identified	8L3ZQX	No controlled substance detected/identified
7C4WFB	No controlled substance detected/identified	8RBEJV	No controlled substance detected/identified
7DYH6V	No controlled substance detected/identified	8TJRYB	No controlled substance detected/identified; Contains Lactose

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
8UVGA2	No controlled substance detected/identified	AAJA2R	No controlled substance detected/identified
8UZL4R	No controlled substance detected/identified	AAXUPV	No controlled substance detected/identified
8VANX4	No controlled substance detected/identified	ABPYX9	No controlled substance detected/identified
8WNFKT	No controlled substance detected/identified	AG3NUP	No controlled substance detected/identified
8YBUDA	No controlled substance detected/identified	AGDMRE	No controlled substance detected/identified
8Z6PR6	No controlled substance detected/identified	AGF6YQ	No controlled substance detected/identified
93KEQ9	No controlled substance detected/identified	AM23KR	Tramadol
97LHFA	No controlled substance detected/identified	AM8AUF	No controlled substance detected/identified
98YYQ3	No controlled substance detected/identified	ANFT8G	No controlled substance detected/identified; Lactose
996LZZ	No controlled substance detected/identified	ANLRXK	No controlled substance detected/identified
99WFVC	No controlled substance detected/identified	AP7WZN	No controlled substance detected/identified
9A6HVP	No controlled substance detected/identified	AQPP9D	No controlled substance detected/identified
9BLMFA	No controlled substance detected/identified	ATDWUV	No controlled substance detected/identified
9CAEUY	No controlled substance detected/identified	AV2K3P	No controlled substance detected/identified
9EFRNJ	No controlled substance detected/identified; (Lactose)	AVF7CR	No controlled substance detected/identified
9GYXVT	No controlled substance detected/identified	AVX2VD	No controlled substance detected/identified
9HE4L6	No controlled substance detected/identified	AZBZAT	No controlled substance detected/identified
9JVXME	No controlled substance detected/identified; Lactose	B7FU8U	No controlled substance detected/identified
9K66P8	No controlled substance detected/identified	B7FZG2	No controlled substance detected/identified
9MAVWM	No controlled substance detected/identified	B7GNQZ	No controlled substance detected/identified
9U8CJL	No controlled substance detected/identified	B8MAEZ	No controlled substance detected/identified
9V4UCB	No controlled substance detected/identified; LACTOSE	BAG2K6	No controlled substance detected/identified
9W26M6	No controlled substance detected/identified	BCHCX7	No controlled substance detected/identified
9X9FB9	No controlled substance detected/identified	BDKNCN	No controlled substance detected/identified
A292LC	No controlled substance detected/identified	BHUZ9N	No controlled substance detected/identified
A2AUJJ	No controlled substance detected/identified	BKXQF4	No controlled substance detected/identified
A8FH2R	No controlled substance detected/identified	BNFTKN	No controlled substance detected/identified
		BX7KN9	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
BYJ3TY	No controlled substance detected/identified	DLNFRW	No controlled substance detected/identified
C44RKM	No controlled substance detected/identified	DLZEM6	No controlled substance detected/identified
C6LLJB	No controlled substance detected/identified	DPFYJT	No controlled substance detected/identified
C8A9Z6	No controlled substance detected/identified	DPHNPB	No controlled substance detected/identified
CAQG3B	No controlled substance detected/identified	DUBM3L	No controlled substance detected/identified
CCMNXA	No controlled substance detected/identified	DW4G4V	No controlled substance detected/identified
CNA82D	No controlled substance detected/identified	DWKNDK	Controlled substance(s) detected/identified
CNUTPX	No controlled substance detected/identified	DZLRYE	No controlled substance detected/identified
CQFLEK	No controlled substance detected/identified	E24HCN	No controlled substance detected/identified
CTPDZ9	No controlled substance detected/identified	E2836X	No controlled substance detected/identified
CUW4HN	No controlled substance detected/identified	E4JJW4	No controlled substance detected/identified
CVWUWJ	No controlled substance detected/identified	E4WBCE	No controlled substance detected/identified
CW73YC	No controlled substance detected/identified	E6AW9U	No controlled substance detected/identified
CW7TE8	No controlled substance detected/identified	E7QQA6	No controlled substance detected/identified
CXE4YP	No controlled substance detected/identified	EBXJ2E	No controlled substance detected/identified
CYD64V	No controlled substance detected/identified	ED44PE	No controlled substance detected/identified
CZJRCT	No controlled substance detected/identified	EDJA3J	No controlled substance detected/identified
D6RJYC	No controlled substance detected/identified	EF9GMF	No controlled substance detected/identified
D77WPU	No controlled substance detected/identified	EFPUQJ	No controlled substance detected/identified
D78VKN	No controlled substance detected/identified	EG47M4	No controlled substance detected/identified
D8JFLK	No controlled substance detected/identified	EHGHWU	No controlled substance detected/identified
D8KGFJ	No controlled substance detected/identified	EJQRM7	No controlled substance detected/identified
DDRW3L	No controlled substance detected/identified	ELBUZ6	No controlled substance detected/identified; Lactosa
DE244T	No controlled substance detected/identified	ENZ2K2	No controlled substance detected/identified
DE8VTQ	No controlled substance detected/identified	ER4RX9	No controlled substance detected/identified
DGKZND	No controlled substance detected/identified	ETB6FA	No controlled substance detected/identified
DH7FCF	No controlled substance detected/identified	ETDULT	No controlled substance detected/identified
DJWJ6M	No controlled substance detected/identified	EU6XBT	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
EUCT62	No controlled substance detected/identified	GPQNMG	No controlled substance detected/identified; net weight of material - 0.28 (\pm 0.02) gram.
EY8HUK	No controlled substance detected/identified	GQ4DUZ	No controlled substance detected/identified
EZJDDR	No controlled substance detected/identified	GQEF28	No controlled substance detected/identified
F2RWRU	No controlled substance detected/identified	GVB4HE	No controlled substance detected/identified
F3GEF9	No controlled substance detected/identified	GVDMTW	No controlled substance detected/identified
F4ZWXL	No controlled substance detected/identified	GVELNP	No controlled substance detected/identified
F6PC23	No controlled substance detected/identified	GVJRGL	No controlled substance detected/identified
F9UWBW	No controlled substance detected/identified	GYYBJN	No controlled substance detected/identified
FAPECX	No controlled substance detected/identified; Lactose	GZ9E2T	No controlled substance detected/identified
FB826J	No controlled substance detected/identified	GZRD3X	No controlled substance detected/identified
FEP2MK	No controlled substance detected/identified; Lactose	GZU39F	No controlled substance detected/identified
FEXZZU	No controlled substance detected/identified	H3TPD4	No controlled substance detected/identified
FHBYYG	No controlled substance detected/identified	H6HYKJ	No controlled substance detected/identified
FHCQWP	No controlled substance detected/identified	HAPK9G	No controlled substance detected/identified
FUAKDT	No controlled substance detected/identified	HCEQTD	No controlled substance detected/identified
FWAYWC	No controlled substance detected/identified	HDBHMY	No controlled substance detected/identified
FXP6AF	No controlled substance detected/identified	HJ4DXJ	No controlled substance detected/identified
FZA3QJ	No controlled substance detected/identified	HM4JCP	No controlled substance detected/identified
FZE969	No controlled substance detected/identified	HMDMR9	No controlled substance detected/identified
G3YF6V	No controlled substance detected/identified	HQCAZ4	No controlled substance detected/identified
G8P2P4	No controlled substance detected/identified; lactosa detectado en el punto 2	HQGHCW	No controlled substance detected/identified
GGC7PF	No controlled substance detected/identified	HQZ2JP	No controlled substance detected/identified; Lactose only detected
GHB3K6	No controlled substance detected/identified	J3R4LH	No controlled substance detected/identified
GHL8H2	No controlled substance detected/identified, Lactose	J79LMY	No controlled substance detected/identified
GMHT8J	No controlled substance detected/identified; No detection	J7WMTQ	No controlled substance detected/identified
GPNB9Z	No controlled substance detected/identified	J9UCN4	No controlled substance detected/identified
		JA7YE6	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
JAQMND	No controlled substance detected/identified	KA2YTV	No controlled substance detected/identified
JB4DVW	No controlled substance detected/identified; lactose	KA97UW	No controlled substance detected/identified
JC8BPC	No controlled substance detected/identified	KAMPN2	No controlled substance detected/identified
JD87PV	No controlled substance detected/identified	KCNPUZ	No controlled substance detected/identified; lactose
JE4QB9	No controlled substance detected/identified	KERHNY	No controlled substance detected/identified
JHP9UE	No controlled substance detected/identified	KGTA2Y	No controlled substance detected/identified
JJZ8TU	No controlled substance detected/identified	KK8WL6	No controlled substance detected/identified
JK9E2P	No controlled substance detected/identified	KKKDUD	No controlled substance detected/identified
JNM4F7	No controlled substance detected/identified	KLGWQC	No controlled substance detected/identified
JP6WPG	No controlled substance detected/identified	KRQ3HC	No controlled substance detected/identified
JP6XAE	No controlled substance detected/identified	KRQ3KX	No controlled substance detected/identified
JPM3TD	No controlled substance detected/identified	KTGAGF	No controlled substance detected/identified
JQ2CYT	No controlled substance detected/identified	KWDWB4	No controlled substance detected/identified
JTY2V7	No controlled substance detected/identified	KZCAW8	No controlled substance detected/identified
JV93ZD	No controlled substance detected/identified	KZHDWE	No controlled substance detected/identified
JVV9LX	No controlled substance detected/identified	KZXWEQ	No controlled substance detected/identified
JWFC3H	Tramadol	KZYP4X	No controlled substance detected/identified
JY8ACB	No controlled substance detected/identified	L4PJE4	No controlled substance detected/identified
JYLYD2	No controlled substance detected/identified	L7K2TC	No controlled substance detected/identified
JZ6HX2	No controlled substance detected/identified	LCZVDM	No controlled substance detected/identified
JZ884J	No controlled substance detected/identified	LD66W9	No controlled substance detected/identified
K4EBYQ	No controlled substance detected/identified	LGHZHX	No controlled substance detected/identified
K4TMQ4	No controlled substance detected/identified	LLCTLZ	No controlled substance detected/identified
K74JDL	No controlled substance detected/identified	LQM4C9	No controlled substance detected/identified
K7JYCU	No controlled substance detected/identified	LR2G9J	No controlled substance detected/identified
K8EJ6L	No controlled substance detected/identified	LRGRWP	No controlled substance detected/identified
K8LDDV	No controlled substance detected/identified	LRHDVQ	No controlled substance detected/identified
K9GX3F	No controlled substance detected/identified	LVDFBC	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
LX8TLJ	No controlled substance detected/identified	N7DN9M	No controlled substance detected/identified
LZDFW3	No controlled substance detected/identified	N7F97N	No controlled substance detected/identified
LZEBKE	No controlled substance detected/identified	NA7YV7	No controlled substance detected/identified
LZHTQQ	No controlled substance detected/identified	NAEHE6	No controlled substance detected/identified
M2XVF9	No controlled substance detected/identified	NAVPL	No controlled substance detected/identified
M332BB	No controlled substance detected/identified	NCV6F4	No controlled substance detected/identified
M3HH9P	No controlled substance detected/identified; alpha-lactose	NHMABT	No controlled substance detected/identified
M3LZBU	No controlled substance detected/identified; Lactose indicated	NL82XG	No controlled substance detected/identified
M6KGGW	No controlled substance detected/identified	NLKU8P	No controlled substance detected/identified
M7V8L8	No controlled substance detected/identified	NNR7WD	No controlled substance detected/identified
MG3XCP	No controlled substance detected/identified	NUZETA	No controlled substance detected/identified
MGDY24	No controlled substance detected/identified	NWAEXG	No controlled substance detected/identified
MGFN8L	No controlled substance detected/identified	NXX4NN	No controlled substance detected/identified
MJ4XGM	No controlled substance detected/identified	NZP2GN	No controlled substance detected/identified
MKHDXA	No controlled substance detected/identified	P6CCLJ	No controlled substance detected/identified
MMY2X9	No controlled substance detected/identified	P6WWPV	No controlled substance detected/identified
MQNB4T	No controlled substance detected/identified	PAAF7C	No controlled substance detected/identified
MTUJML	No controlled substance detected/identified	PAM4D6	No controlled substance detected/identified
MVKNBQ	No controlled substance detected/identified	PCX62P	No controlled substance detected/identified
MWBR4X	No controlled substance detected/identified	PFEDKH	No controlled substance detected/identified; Lactose : 100 %
MX7KTP	No controlled substance detected/identified	PHNLLF	No controlled substance detected/identified
MZC6FP	No controlled substance detected/identified	PHXMCU	No controlled substance detected/identified
N2G2EY	No controlled substance detected/identified	PJUZW3	No controlled substance detected/identified
N47BLE	Controlled substance(s) detected/identified	PL7L2V	No controlled substance detected/identified
N4JYM7	No controlled substance detected/identified	PLGQX7	No controlled substance detected/identified
N4QYU2	No controlled substance detected/identified	PXDJZ4	No controlled substance detected/identified
N7CUJF	No controlled substance detected/identified	PY4V73	No controlled substance detected/identified
		Q38RNB	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
Q6NFNA	No controlled substance detected/identified; Laboratory analysis determined the presence of Alpha Lactose, a non controlled substance.	RRX4RP	No controlled substance detected/identified
Q8DM97	No controlled substance detected/identified	RU7ZRL	No controlled substance detected/identified; Contains lactose
QCPH2M	No controlled substance detected/identified	RYKNCJ	No controlled substance detected/identified
QK2RG3	No controlled substance detected/identified	RZPCH9	No controlled substance detected/identified
QKAPUD	No controlled substance detected/identified	RZUHB4	No controlled substance detected/identified
QKTAYK	No controlled substance detected/identified	T3BKYM	No controlled substance detected/identified
QL2KK3	No controlled substance detected/identified	T3E37X	No controlled substance detected/identified
QL64JQ	No controlled substance detected/identified	T3XLB6	No controlled substance detected/identified
QQ7PP8	No controlled substance detected/identified	T6KE9T	No controlled substance detected/identified; Contains lactose
QQNEB9	No controlled substance detected/identified	T6KGXX	No controlled substance detected/identified
QY8L6Y	No controlled substance detected/identified	T6LAV7	No controlled substance detected/identified
QYMV7C	No controlled substance detected/identified	T82WW4	No controlled substance detected/identified
QZUC4H	No controlled substance detected/identified	T8QUNC	No controlled substance detected/identified
R2Q3X4	No controlled substance detected/identified	T94F8L	No controlled substance detected/identified
R6TYKC	No controlled substance detected/identified	T9Y8UT	No controlled substance detected/identified
R8YE3G	No controlled substance detected/identified	TA2LWT	No controlled substance detected/identified
R97UAM	No controlled substance detected/identified	TAJJBE	No controlled substance detected/identified
RACKW4	No controlled substance detected/identified	TAXAW4	No controlled substance detected/identified
RAGJNT	No controlled substance detected/identified	TDC2VJ	No controlled substance detected/identified
RB77PU	No controlled substance detected/identified	TER8NF	No controlled substance detected/identified
RCTFX4	No controlled substance detected/identified	TF2A3Y	No controlled substance detected/identified
RGG8WK	No controlled substance detected/identified	TF8FQN	No controlled substance detected/identified; IR indicated the substance was lactose
RJPF76	No controlled substance detected/identified	TFXMN7	No controlled substance detected/identified
RMQC4C	No controlled substance detected/identified	TGQJ79	No controlled substance detected/identified
RPDV23	No controlled substance detected/identified	TKD7TU	Controlled substance(s) detected/identified
RRGVWU	No controlled substance detected/identified	TLPVBL	No controlled substance detected/identified
RRUJ22	No controlled substance detected/identified	TLQG9M	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
TTUMNP	No controlled substance detected/identified	VCBUGW	No controlled substance detected/identified
TYXLZZ	No controlled substance detected/identified	VG2A64	No controlled substance detected/identified
TZ9HHX	No controlled substance detected/identified	VH23A3	No controlled substance detected/identified
U2JQ9X	No controlled substance detected/identified	VH7NUP	No controlled substance detected/identified
U6Z8DV	No controlled substance detected/identified	VKCXZ2	No controlled substance detected/identified
U7A2AV	No controlled substance detected/identified	VMQM8R	Controlled substance(s) detected/identified
U86R4G	No controlled substance detected/identified	VMVUKK	No controlled substance detected/identified
UAU4Z2	No controlled substance detected/identified	VP2E8K	No controlled substance detected/identified
UCJBGH	No controlled substance detected/identified	VR6BTA	No controlled substance detected/identified
UERDJF	No controlled substance detected/identified	VRUG7L	No controlled substance detected/identified
UH6CH3	No controlled substance detected/identified	VV88KP	No controlled substance detected/identified
UKVEJA	No controlled substance detected/identified	W4ZR93	No controlled substance detected/identified
UL3NLF	No controlled substance detected/identified	W76K32	No controlled substance detected/identified
ULJ3R4	No controlled substance detected/identified	W79367	No controlled substance detected/identified
UM2QNNQ	No controlled substance detected/identified	W7PW7F	No controlled substance detected/identified
UMY98T	No controlled substance detected/identified	W9VGXM	No controlled substance detected/identified
UPLXDR	No controlled substance detected/identified	WAZ6Z6	No controlled substance detected/identified
UQY9QY	No controlled substance detected/identified	WCR9LK	No controlled substance detected/identified
UT99XR	No controlled substance detected/identified	WCUX7A	No controlled substance detected/identified
UVETKR	No controlled substance detected/identified	WD6XU4	No controlled substance detected/identified
UVFLJY	No controlled substance detected/identified	WGZKPD	No controlled substance detected/identified; Indicates Lactose; not controlled
V2VMD3	No controlled substance detected/identified	WHHP8B	No controlled substance detected/identified
V2Y9QA	No controlled substance detected/identified	WPZTK7	No controlled substance detected/identified
V38L7Q	No controlled substance detected/identified	WTH69A	No controlled substance detected/identified
V3JERR	No controlled substance detected/identified	WTLV86	No controlled substance detected/identified
V4ZDAW	No controlled substance detected/identified	WV29TZ	No controlled substance detected/identified
V7QDLY	No controlled substance detected/identified	WVMVAM	No controlled substance detected/identified
V9BEEZ	No controlled substance detected/identified	WVKNR	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
WWC3GD	No controlled substance detected/identified	Y4BKTV	No controlled substance detected/identified
WXC3UK	No controlled substance detected/identified	Y8ALAR	No controlled substance detected/identified
X4T37N	No controlled substance detected/identified	Y8N8KE	No controlled substance detected/identified
X6NECP	No controlled substance detected/identified	Y92U6E	No controlled substance detected/identified
X97RYY	No controlled substance detected/identified	YBUG7H	No controlled substance detected/identified
X97RZJ	No controlled substance detected/identified	YC6E68	No controlled substance detected/identified
XBFQA8	No controlled substance detected/identified	YDWLBP	No controlled substance detected/identified
XCC9F3	No controlled substance detected/identified	YGYJLH	No controlled substance detected/identified
XEP9X2	No controlled substance detected/identified	YJF4G	No controlled substance detected/identified
XETNGU	No controlled substance detected/identified	YJWWDN	No controlled substance detected/identified
XF6GGN	No controlled substance detected/identified	YKTDPL	No controlled substance detected/identified
XFTHME	No controlled substance detected/identified	YL3KQT	No controlled substance detected/identified
XG2NTN	No controlled substance detected/identified	YM4CYM	No controlled substance detected/identified
XHX736	No controlled substance detected/identified	YQG9CB	No controlled substance detected/identified
XJPFM7	No controlled substance detected/identified	YWA4KA	No controlled substance detected/identified
XK92UN	No controlled substance detected/identified	YXPBWJ	No controlled substance detected/identified
XKYBEP	No controlled substance detected/identified	YY3WJZ	No controlled substance detected/identified
XL2UP8	No controlled substance detected/identified	YYB3NN	No controlled substance detected/identified
XLB4ZQ	No controlled substance detected/identified; no drug detected	YYFN9B	No controlled substance detected/identified
XLT9JP	No controlled substance detected/identified	YYXDWW	No controlled substance detected/identified
XLVLEY	No controlled substance detected/identified	YZL3M4	No controlled substance detected/identified
XPTCBC	No controlled substance detected/identified	Z22RF8	No controlled substance detected/identified
XVHQKC	No controlled substance detected/identified	Z26AMJ	No controlled substance detected/identified
XVX4P2	No controlled substance detected/identified	Z6Y9T2	No controlled substance detected/identified
XX84YN	No controlled substance detected/identified	Z94R4G	No controlled substance detected/identified
XZWC76	No controlled substance detected/identified	Z9ERM4	No controlled substance detected/identified
Y2MY9K	No controlled substance detected/identified	Z9Y938	No controlled substance detected/identified
Y3EZWW	No controlled substance detected/identified	Z9ZAW6	No controlled substance detected/identified

TABLE 2a - Item 2 Results

WebCode	Controlled Substance Detected	WebCode	Controlled Substance Detected
ZF4C27	No controlled substance detected/identified		
ZFBJA	No controlled substance detected/identified		
ZG77NP	No controlled substance detected/identified		
ZG9VV8	No controlled substance detected/identified		
ZH8UEF	No controlled substance detected/identified		
ZJZYK9	No controlled substance detected/identified		
ZNA79R	No controlled substance detected/identified		
ZNVJYP	No controlled substance detected/identified		
ZQC3MZ	No controlled substance detected/identified		
ZTPDWQ	No controlled substance detected/identified		
ZUGLRN	No controlled substance detected/identified		
ZUXXBE	No controlled substance detected/identified		
ZVYCDE	No controlled substance detected/identified		
ZXXVXZ	No controlled substance detected/identified		
ZYAHKK	No controlled substance detected/identified		
ZYRKDE	No controlled substance detected/identified		
ZYUAJX	No controlled substance detected/identified		
ZZ4J8N	No controlled substance detected/identified		

<i>Response Summary - Item 2</i>	
Participants: 566	
No Controlled Substance:	560
Tramadol:	2
Other:	4

Examination Methods (Item 2)

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
23T4YD	✓	✓		✓				✓		
24ZFGF		✓					✓	✓		
28JHHT		✓						✓		
29TCB8	✓	✓					✓	✓	✓	Anion tests
29VACV	✓	✓						✓		
29XRQU	✓							✓		
2ARM6P					✓			✓		ATR
2CDE3D	✓	✓				✓		✓		
2H29V6		✓						✓	✓	DART/TOF-MS, weight determination
2HGGVT		✓								
2JZ8ED	✓	✓				✓		✓		
2K8PBN	✓	✓						✓		
2V782Q		✓			✓			✓		
2VWBNY		✓						✓		
2XTYYE	✓	✓						✓		
32AT6D	✓							✓		
33KBQ4	✓							✓		
34RYFU	✓		✓					✓		NMR
376DGA	✓	✓				✓		✓		
37NAXG								✓		Handheld Raman (TruNarc)
39RUVN	✓	✓						✓		
3ANJTQ	✓							✓		
3AY7HR		✓						✓		
3DA6WY	✓							✓		
3G9L89	✓							✓		
3GYMVH	✓							✓		
3JXRR6								✓		
3KNQ63	✓	✓				✓		✓		
3MUM2R		✓						✓		
3P9C9G								✓		
3PWHTG	✓							✓		A variety of samples sizes and methods were used for analysis
3TFDQ8	✓	✓						✓		
3V6M3U	✓							✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
3WGLUH	✓	✓				✓		✓		
44ENHE		✓					✓	✓		
46L3T2		✓						✓		LC/MS/MS, HRMS
46WD72	✓					✓		✓		
4BDANG		✓						✓		
4BUEVU	✓	✓			✓			✓		
4BWYPN	✓						✓	✓		
4CB9ZA	✓	✓				✓		✓		
4CQRK8								✓		GC-FID
4FAMJT	✓	✓						✓		
4LEEWV	✓	✓						✓		
4M36RA	✓	✓						✓		
4MNHFM		✓			✓			✓		
4PWN2N	✓	✓						✓		
4WECFQ	✓	✓			✓		✓	✓		
4WUDJT	✓							✓		
4WVBTN	✓							✓		
4Y3MBP	✓	✓			✓			✓		
66PNEA	✓	✓			✓			✓		
67ATFR	✓							✓		
67DFTY								✓		
6C6DTN	✓							✓		
6DDMQM	✓							✓		
6DHYP6		✓						✓		LCMS
6DVR7Z		✓						✓		
6EBUCD	✓	✓					✓	✓		
6J42L9	✓	✓				✓		✓		Lactose detected by ATR
6JHLYQ								✓		
6JYVWY								✓		UPLC-QTOFMS
6N39DX	✓							✓		
6NWZ3P	✓	✓			✓		✓	✓		
6NZFHB	✓	✓						✓		
6PKRGF	✓	✓						✓		
6Q3JRK	✓							✓		
6QM6VW	✓	✓						✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
6QXFZE	✓							✓		
6RYU3F		✓				✓		✓		
6UKMVA	✓	✓						✓		
6VH4VD								✓		Raman
6VYA6C	✓	✓					✓			
6XP844	✓	✓						✓		
73VDQZ	✓	✓						✓		
749XHA	✓							✓		
74N7LJ	✓							✓		
77UUZ9	✓							✓		
7C4WFB	✓	✓						✓		
7DYH6V	✓	✓				✓				
7EM69J	✓			✓			✓	✓		
7G8X2D	✓	✓						✓		
7KBMQZ	✓							✓		
7KPBP8	✓	✓						✓		
7KYU6Y	✓					✓		✓		
7T3C2A								✓		
7UFWRY		✓						✓		
7XVBDJ	✓							✓		
7XXWD7	✓							✓		
7YD32W	✓	✓						✓		
82EU6T	✓	✓						✓		
836UAR	✓							✓		
84LUNE	✓	✓				✓		✓		
84YF3H					✓			✓		
86WUMU	✓	✓				✓		✓		
87QPY6			✓					✓		
8843VE		✓				✓		✓		
88LZ3K	✓							✓		
8ANBNM		✓						✓		
8DRM42		✓						✓		
8G6L2M		✓						✓		
8HLP3U	✓	✓						✓		
8JU449	✓				✓			✓		DART-TOF

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
8L364L		✓						✓		
8L3ZQX	✓							✓		
8RBEJV	✓	✓						✓		
8TJRYB	✓	✓				✓		✓		
8UVGA2								✓		
8UZL4R	✓	✓				✓		✓		
8VANX4		✓						✓		LC/MS
8WNFKT		✓						✓		
8YBUDA	✓							✓		Handheld Raman Spectroscopy
8Z6PR6	✓	✓						✓		Raman
93KEQ9	✓	✓						✓		
97LHFA	✓	✓				✓		✓		
98YYQ3	✓	✓						✓		
996LZZ		✓						✓		
99WFVC	✓							✓		
9A6HVP	✓							✓		
9BLMFA	✓	✓				✓		✓		
9CAEUY	✓	✓						✓		
9EFRNJ		✓					✓	✓		
9GYXVT		✓						✓		
9HE4L6	✓							✓		(2) GC/MS: Base-CHCl ₃ and Acid-CHCl ₃ extractions
9JVXME	✓	✓				✓		✓		
9K66P8	✓	✓					✓			DART-TOF MS
9MAVWM	✓	✓						✓		
9U8CJL	✓	✓				✓		✓		
9V4UCB	✓	✓						✓		
9W26M6		✓				✓		✓		
9X9FB9	✓							✓		
A292LC	✓	✓				✓		✓		
A2AUJJ	✓							✓		
A8FH2R	✓	✓						✓		
AAJA2R	✓							✓		
AAXUPV	✓							✓		
ABPYX9								✓		NMR,Raman

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
AG3NUP	✓	✓		✓				✓		
AGDMRE	✓	✓		✓				✓		
AGF6YQ	✓							✓		
AM23KR								✓		
AM8AUF	✓							✓		
ANFT8G		✓						✓		
ANLRXK	✓	✓						✓		
AP7WZN								✓		
AQPP9D	✓	✓				✓		✓		
ATDWUV					✓			✓		GC-FID
AV2K3P	✓							✓		Weight determination
AVF7CR	✓							✓		
AVX2VD	✓	✓						✓		
AZBZAT								✓		
B7FU8U	✓							✓		ATR
B7FZG2		✓					✓	✓		
B7GNQZ								✓		
B8MAEZ	✓							✓		
BAG2K6	✓	✓						✓		LC/MS (ion trap)
BCHCX7	✓							✓		
BDKNCN	✓				✓					
BHUZ9N		✓						✓		
BKXQF4	✓	✓						✓		
BNFTKN	✓						✓	✓		
BX7KN9	✓					✓		✓		
BYJ3TY		✓						✓		LC/MS
C44RKM	✓	✓						✓		
C6LLJB	✓	✓				✓		✓		
C8A9Z6		✓				✓		✓		
CAQG3B	✓							✓		
CCMNXA	✓							✓		
CNA82D	✓	✓						✓		
CNUTPX	✓	✓						✓		
CQFLEK		✓						✓		
CTPDZ9	✓	✓				✓		✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
CUW4HN	✓						✓		✓	Raman Spectroscopy
CVWUWJ		✓						✓		
CW73YC	✓	✓						✓		
CW7TE8						✓	✓	✓		
CXE4YP	✓							✓		
CYD64V		✓						✓	✓	Direct analysis in real time/time-of-flight mass spectrometry
CZJRCT		✓						✓		
D6RJYC		✓						✓		
D77WPU		✓			✓					
D78VKN	✓	✓						✓		
D8JFLK			✓					✓		
D8KGFJ	✓	✓						✓		
DDRW3L								✓		weight determination
DE244T	✓	✓			✓					
DE8VTQ		✓						✓		LC/MS
DGKZND	✓	✓						✓		
DH7FCF	✓				✓		✓	✓		
DJWJ6M	✓							✓		
DLNFRW	✓							✓		
DLZEM6	✓	✓				✓		✓		
DPFYJT	✓							✓		
DPHNPB	✓							✓		
DUBM3L	✓	✓						✓		
DW4G4V	✓	✓				✓		✓		
DWKNDK	✓							✓		GC/FID
DZLRYE	✓							✓		
E24HCN	✓							✓		Raman
E2836X		✓						✓		
E4JJW4	✓	✓						✓		
E4WBCE		✓						✓		Raman
E6AW9U	✓	✓						✓		
E7QQA6	✓	✓				✓		✓		
EBXJ2E	✓	✓						✓		
ED44PE		✓						✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
EDJA3J	✓						✓	✓		
EF9GMF		✓						✓		
EFPUQJ	✓							✓		Net Weight
EG47M4								✓		LC Qexactive
EHGHWU	✓	✓						✓		
EJQRM7	✓	✓				✓		✓		
ELBUZ6	✓	✓						✓		
ENZ2K2	✓	✓						✓		
ER4RX9	✓							✓		
ETB6FA							✓	✓		
ETDULT	✓	✓			✓			✓		
EU6XBT	✓	✓						✓		
EUCT62	✓	✓				✓		✓		
EY8HUK	✓							✓		
EZJDDR	✓							✓		
F2RWRU	✓	✓						✓		
F3GEF9	✓							✓		
F4ZWL	✓	✓						✓		
F6PC23	✓	✓				✓		✓		
F9UWBW	✓							✓		
FAPECX	✓	✓						✓		
FB826J	✓	✓						✓		
FEP2MK								✓		Raman spectroscopy
FEXZZU	✓							✓		
FHBYYG		✓						✓		
FHCQWP	✓	✓						✓		
FUAKDT	✓							✓		
FWAYWC	✓							✓		
FXP6AF	✓							✓		
FZA3QJ	✓	✓						✓		
FZE969	✓	✓						✓		
G3YF6V	✓	✓						✓		
G8P2P4	✓	✓						✓		
GGC7PF	✓	✓						✓		
GHB3K6		✓				✓		✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
GHL8H2	✓	✓						✓		
GMHT8J	✓							✓		
GPNB9Z								✓		
GPQNMG	✓	✓						✓		
GQ4DUZ	✓					✓		✓		
GQEF28	✓	✓						✓		
GVB4HE	✓	✓						✓		
GVDMTW	✓	✓						✓		
GVELNP		✓						✓		
GVJRGL	✓	✓				✓		✓		
GYBJN	✓	✓				✓		✓		
GZ9E2T	✓	✓						✓		
GZRD3X	✓	✓				✓		✓		
GZU39F	✓	✓						✓		
H3TPD4	✓	✓			✓			✓		
H6HYKJ		✓						✓		
HAPK9G	✓							✓		Weight Analysis
HCEQTD		✓						✓		
HDBHMY	✓	✓				✓		✓		
HJ4DXJ	✓							✓		
HM4JCP								✓		Extraction
HMDMR9	✓							✓		
HQCAZ4	✓	✓						✓		
HQGHCW	✓							✓		
HQZ2JP	✓	✓						✓		
J3R4LH								✓		
J79LMY	✓					✓		✓		
J7WMTQ								✓		LC/MS
J9UCN4	✓	✓				✓		✓		
JA7YE6	✓	✓						✓		
JAQMND	✓							✓		
JB4DVW	✓	✓						✓		
JC8BPC	✓							✓		
JD87PV	✓	✓						✓		
JE4QB9	✓	✓			✓		✓	✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC Crystal	GC	UV	TLC	GC/MS	Micro	Other
JHP9UE	✓					✓	✓		
JJZ8TU	✓			✓			✓		
JK9E2P	✓						✓		FTIR with ATR accessory
JNM4F7	✓	✓					✓		
JP6WPG	✓	✓	✓				✓		
JP6XAE	✓	✓		✓			✓		
JPM3TD	✓						✓		
JQ2CYT							✓		GC/FID
JTY2V7		✓				✓	✓		
JV93ZD	✓	✓					✓		
JVV9LX	✓	✓			✓		✓		
JWFC3H							✓		
JY8ACB	✓	✓					✓		
JYLYD2	✓	✓					✓		
JZ6HX2		✓			✓		✓		
JZ884J	✓						✓		
K4EBYQ	✓						✓		TruNarc Raman
K4TMQ4							✓		LC/MS/MS
K74JDL	✓	✓					✓		
K7JYCU		✓					✓		
K8EJ6L	✓						✓		
K8LDDV	✓	✓					✓		
K9GX3F	✓	✓					✓		
KA2YTV	✓						✓		
KA97UW	✓	✓					✓		
KAMPN2	✓				✓		✓		
KCNPUZ	✓	✓					✓		
KERHNY							✓		
KGTA2Y							✓		TruNarc Raman Spectrometer
KK8WL6	✓	✓					✓		
KKKDUD	✓						✓		
KLGWQC	✓						✓		
KRQ3HC	✓	✓					✓		
KRQ3KX	✓	✓			✓		✓		
KTGAGF	✓						✓		Solubility test, Fehlings test

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
KWDWB4	✓							✓		
KZCAW8	✓	✓						✓		
KZHDWE	✓	✓		✓				✓		
KZXWEQ		✓				✓		✓		
KZYP4X		✓						✓		
L4PJE4		✓						✓		DART
L7K2TC	✓	✓						✓		
LCZVDM	✓	✓						✓		
LD66W9	✓				✓		✓	✓		
LGHZHX	✓	✓				✓		✓		
LLCTLZ	✓	✓			✓			✓		
LQM4C9		✓						✓		NMR
LR2G9J	✓	✓						✓		
LRGRWP	✓							✓		
LRHDVQ	✓							✓		
LVDIBC	✓							✓		
LX8TLJ								✓		GC-FID
LZDFW3	✓							✓		
LZEBKE	✓							✓		portable Raman
LZHTQQ	✓	✓						✓		
M2XVF9		✓						✓		Raman
M332BB	✓							✓		
M3HH9P	✓	✓						✓		
M3LZBU	✓	✓	✓					✓		
M6KGGW		✓				✓		✓		
M7V8L8		✓						✓		
MG3XCP	✓	✓			✓			✓		
MGDY24					✓			✓		
MGFN8L	✓							✓		
MJ4XGM	✓							✓		
MKHDXA	✓							✓		
MMY2X9	✓							✓		
MQNB4T	✓	✓			✓		✓	✓		DART
MTUJML	✓	✓						✓		
MVKNBQ	✓	✓			✓			✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
MWBR4X		✓				✓		✓		
MX7KTP	✓					✓		✓		
MZC6FP	✓	✓						✓		
N2G2EY	✓							✓		
N47BLE		✓						✓		
N4JYM7								✓		
N4QYU2	✓	✓						✓		
N7CUJF	✓							✓		
N7DN9M	✓							✓		
N7F97N	✓	✓				✓		✓		
NA7YV7	✓							✓		
NAEHE6	✓	✓			✓		✓	✓		
NAVPBL		✓						✓		Raman
NCV6F4	✓							✓		
NHMABT								✓		
NL82XG	✓	✓						✓		
NLKU8P	✓	✓				✓		✓		
NNR7WD		✓						✓		
NUZETA	✓	✓				✓		✓		
NWAEXG	✓	✓						✓		
NXX4NN		✓						✓		
NZP2GN								✓		
P6CCLJ		✓						✓		
P6WWPV		✓				✓		✓		
PAAF7C	✓	✓								
PAM4D6		✓						✓		
PCX62P	✓							✓		
PFEDKH	✓		✓					✓		LC/Refractometer
PHNLLF	✓	✓						✓		
PHXMCU	✓	✓						✓		
PJUZW3	✓	✓						✓		
PL7L2V		✓				✓		✓		
PLGQX7								✓		
PXDJZ4		✓						✓		
PY4V73							✓	✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
Q38RNB	✓	✓				✓		✓		
Q6NFNA	✓	✓			✓			✓		Raman Spectroscopy
Q8DM97	✓							✓		
QCPH2M	✓	✓						✓		
QK2RG3	✓							✓		
QKAPUD	✓					✓		✓		
QKTAYK		✓	✓					✓		
QL2KK3	✓	✓						✓		
QL64JQ	✓	✓						✓		
QQ7PP8								✓		
QQNEB9								✓		LC-MS/MS
QY8L6Y		✓						✓		
QYMV7C		✓						✓		LC/MS
QZUC4H	✓	✓						✓		
R2Q3X4		✓						✓		
R6TYKC								✓		GC-FID
R8YE3G	✓	✓						✓		
R97UAM	✓							✓		Hand-held Raman Spectroscopy (TruNarc)
RACKW4								✓		
RAGJNT	✓	✓				✓		✓		
RB77PU	✓	✓						✓		
RCTFX4		✓						✓		
RGG8WK		✓	✓					✓		UPLC-PDA, LC-MS
RJPF76	✓	✓						✓		
RMQC4C		✓						✓		LC-MS
RPDV23	✓	✓						✓		
RRGVWU	✓	✓				✓		✓		
RRUJ22		✓						✓		
RRX4RP		✓						✓		Raman
RU7ZRL	✓	✓				✓		✓		
RYKNCJ	✓							✓		
RZPCH9	✓								✓	Solubility, Raman
RZUHB4	✓	✓						✓		
T3BKYM	✓	✓				✓		✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
T3E37X		✓			✓			✓		
T3XLB6	✓							✓		
T6KE9T	✓	✓				✓		✓		
T6KGXX								✓		
T6LAV7	✓	✓		✓				✓		
T82WW4		✓						✓		
T8QUNC								✓		
T94F8L	✓							✓		
T9Y8UT	✓	✓						✓	✓	Solubility, pH
TA2LWT	✓	✓				✓		✓		
TAJJBE								✓		
TAXAW4	✓							✓		
TDC2VJ	✓	✓						✓		Handheld Raman Spectrometer
TER8NF	✓	✓						✓		
TF2A3Y	✓							✓		
TF8FQN	✓	✓				✓		✓		
TFXMN7	✓	✓						✓		
TGQJ79		✓						✓		
TKD7TU	✓							✓		
TLPVBL		✓				✓		✓		
TLQG9M	✓	✓				✓		✓		
TTUMNP	✓	✓				✓		✓		
TYXLZZ	✓				✓		✓	✓		
TZ9HHX		✓			✓			✓		
U2JQ9X	✓				✓		✓	✓		
U6Z8DV		✓						✓		
U7A2AV	✓							✓		
U86R4G	✓							✓		
UAU4Z2	✓							✓		
UCJBGH	✓				✓			✓		
UERDJF	✓	✓						✓		
UH6CH3								✓		
UKVEJA					✓			✓		
UL3NLF		✓						✓		
ULJ3R4	✓	✓						✓		Weight determination

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
UM2QNQ		✓						✓		
UMY98T	✓	✓						✓		
UPLXDR	✓							✓		Solubility
UQY9QY	✓							✓		Raman Spectroscopy
UT99XR	✓	✓				✓		✓		
UVETKR	✓	✓				✓		✓		
UVFLJY	✓	✓			✓		✓	✓		
V2VMD3	✓				✓			✓		
V2Y9QA								✓		GC-FID
V38L7Q	✓	✓				✓		✓		
V3JERR	✓	✓				✓		✓		
V4ZDAW	✓							✓		
V7QDLY	✓				✓		✓	✓		
V9BEEZ	✓							✓		
VCBUGW	✓	✓						✓		
VG2A64								✓		
VH23A3	✓							✓		
VH7NUP	✓							✓		
VKXCZ2		✓						✓		
VMQM8R	✓	✓						✓		
VMVUKK	✓							✓		
VP2E8K	✓							✓		
VR6BTA	✓	✓			✓			✓		FTIR w/ATR accessory
VRUG7L	✓	✓					✓	✓		
VW88KP	✓	✓				✓		✓		
W4ZR93	✓							✓		
W76K32	✓							✓		
W79367		✓						✓		
W7PW7F	✓				✓			✓		
W9VGXM		✓						✓		
WAZ6Z6	✓							✓		Raman Spectroscopy
WCR9LK								✓		
WCUX7A								✓		
WD6XU4	✓				✓	✓				Raman Spectroscopy
WGZKPD	✓	✓						✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
WHHP8B	✓							✓		
WPZTK7	✓	✓						✓		
WTH69A	✓	✓						✓		Handheld Raman Spectrometer
WTLV86	✓	✓						✓		
WV29TZ								✓		
WVMVAM		✓						✓		TruNarc
WVNKNR	✓							✓		
WWC3GD		✓						✓		ESI MS (LC-MS orbitrap)
WXC3UK	✓							✓		Raman
X4T37N		✓					✓	✓		
X6NECP	✓	✓						✓		
X97RYY								✓		
X97RZJ	✓	✓				✓		✓		
XBFQA8								✓		
XCC9F3	✓	✓						✓		
XEP9X2								✓		
XETNGU	✓							✓		
XF6GGN	✓	✓				✓		✓		
XFTHME	✓	✓				✓		✓		
XG2NTN	✓	✓						✓		
XHX736	✓	✓						✓		
XJPFM7								✓		
XK92UN	✓	✓						✓		
XKYBEP	✓	✓				✓		✓		
XL2UP8	✓							✓		Balance
XLB4ZQ	✓	✓						✓		
XLT9JP	✓							✓		
XLVLEY	✓							✓		
XPTCBC	✓					✓		✓		
XVHQKC	✓	✓						✓		
XVX4P2	✓	✓						✓		
XX84YN	✓							✓		
XZWC76								✓		
Y2MY9K		✓				✓		✓		
Y3EZVV	✓							✓		

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
Y4BKTV		✓						✓		
Y8ALAR			✓					✓		LC-TOFMS
Y8N8KE	✓							✓		
Y92U6E	✓	✓				✓		✓		
YBUG7H								✓		Handheld Thermo Scientific TruNarc Raman Spectroscopy
YC6E68	✓							✓		
YDWLBP	✓	✓						✓		
YGYJLH	✓							✓		
YJF4G	✓							✓		
YJWWDN	✓	✓						✓		
YKTDPL	✓	✓						✓		
YL3KQT	✓	✓						✓		
YM4CYM		✓				✓		✓		
YQG9CB								✓		
YWA4KA	✓	✓						✓		
YXPBWJ	✓	✓						✓		
YY3WJZ	✓	✓				✓		✓		
YYB3NN	✓	✓						✓		
YYFN9B	✓	✓						✓		
YYXDWW	✓	✓						✓		
YZL3M4		✓						✓		
Z22RF8	✓	✓						✓		
Z26AMJ		✓				✓	✓	✓		
Z6Y9T2								✓		
Z94R4G	✓							✓		
Z9ERM4		✓	✓					✓		ESI - MS/MS
Z9Y938	✓							✓		
Z9ZAW6	✓	✓						✓		
ZF4C27	✓					✓		✓		
ZFBJA		✓						✓		
ZG77NP		✓						✓		
ZG9VV8		✓						✓		
ZH8UEF	✓	✓				✓		✓		
ZJZYK9	✓	✓			✓					

TABLE 2b - Examination Methods used for Item 2

WebCode	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro	Other
ZNA79R	✓							✓		
ZNVJYP	✓	✓			✓			✓		
ZQC3MZ		✓						✓		
ZTPDWQ	✓	✓						✓		
ZUGLRN	✓							✓		
ZUXXBE	✓							✓		
ZVYCDE	✓	✓						✓		
ZXXVXZ	✓							✓		
ZYAHKK	✓	✓						✓		
ZYRKDE	✓	✓				✓		✓		
ZYUAJX	✓	✓						✓		GC/FID
ZZ4J8N	✓							✓		

Response Summary

Participants	Color	FTIR	LC	Crystal	GC	UV	TLC	GC/MS	Micro
566	401	334	9	7	42	87	32	554	6
Percent	71%	59%	2%	1%	7%	15%	6%	98%	1%

Additional Comments

TABLE 3

WebCode	Additional Comments
2H29V6	Salt form not identified.
2XTYYE	report wording: Item 1.1 (Agency Item Sample Pack:DA2). Tramadol was identified in the folded cellophane bag. The total weight of the white powder was 232 milligrams +/- 3 milligrams. Item 1.2 (Agency Item Sample Pack:DA2). No controlled substances were identified in the white powder in the folded cellophane bag. Weight measurement uncertainty calculated at a coverage probability of 95.45%.
34RYFU	Item 2: Lactose was detected.
3MUM2R	Item 2 was found to contain a substance consistent with lactose.
3WGLUH	Lactose was detected in both samples.
4BDANG	Lactose was present
4PWN2N	Tramadol is a controlled substance in the state of [State] but is prosecuted as a miscellaneous substance([State Legislation]). It does not have a penalty group associated with it(in [State]).
6EBUCD	Item 2 indicated the presence of alpha-Lactose. Item 1 also indicated the presence of alpha-Lactose as well as Tramadol.
6JYVWY	Our data are accredited by General requirements for the competence of testing
6PKRGF	the item 1 also presents lactose (substance not controlled)
6QM6VW	Lactose indicated in Item 2
6RYU3F	Item 1 also had lactose w/ the controlled substance. Item 2 had lactose.
74N7LJ	Tramadol was detected in Item 1
7C4WFB	lactose present in Item 2
7DYH6V	Tramadol is federally controlled, but it is not currently controlled in the state of [State].
7G8X2D	In item 1 tramadol was identified, which is controlled by the US legislation but not by the legislation of [Country]. The item 2 contains Lactose, which is not a controlled substance.
82EU6T	item 2) alpha-lactose indicated, not reported
86WUMU	Item 2 consistent with Lactose
87QPY6	Tramadol is not a controlled drug under [Country's Legislation]
8TJRYB	Tramadol was placed into Schedule IV of the [State] schedules of controlled substances in 2014. On September 1, 2017 Tramadol was listed in the [State] Controlled Substance Act as a Penalty Group 3 substance.
9CAEUY	Lactose detected in both Items 1 and 2
9EFRNJ	The FTIR spectra of items 1 and 2 were quite similar (not identical). By applying chromatographic methods (TLC, GCMS) we were able to better distinguish between them (TLC) and then identify the items (GCMS).
9JVXME	On September 1st, 2017 Tramadol was added to the [State] Health and Safety Code. On October 10th, 2014 Tramadol was added to schedule IV in the [State] Schedules of Controlled Substances.
9V4UCB	THE TRAMADOL IS PART OF THE LAW OF CONTROLLED SUBSTANCES IN THE US
9W26M6	Items 1 and 2 - Lactose was detected.
AAJA2R	Item 1 contained Tramadol which is controlled under [Country Legislation]
ABPYX9	Tramado was detected in item 1. Lactose was detected in item 2.
AGF6YQ	Tramadol was listed in [Country Legislation].

TABLE 3

WebCode	Additional Comments
AM23KR	Evidence of Dimethyltryptamine was also present in Item 1.
AM8AUF	Tramadol was detected in Item 1
AQPP9D	2. Lactose detected
BAG2K6	Lactose was detected in both powders (Items 1 and 2).
BKXQF4	Item 1 note: Effective September 25, 2015, tramadol was scheduled as a Schedule IV controlled substance by the [State Legislation]. Tramadol is also listed as Schedule IV, according to Title 21 CFR 1308.14 (b)(3). Item 2 note: Identified during the analysis was lactose (non-controlled).
C6LLJB	Lactose was detected by FTIR in Item 2.
CW73YC	For item 1, tramadol was indicated by a literary search. No reference material available to confirm the presence of tramadol. Tramadol is not controlled in [State], but is federally controlled.
CXE4YP	Tramadol is listed in [Legislation].
D78VKN	1) Item 1 was found to contain tramadol and lactose. 2) Item 2 was found to contain lactose.
DPHNPB	Tramadol was detected in Item 1
DW4G4V	Item 2 was identified as Lactose.
E24HCN	Tramadol is a controlled substance under schedule IV of the United States Controlled Substances Act.
E4WBCE	Library searches match lactose.
EJQRM7	In item 2, lactose was detected via FTIR.
ETDULT	Item #2 Possible Lactose Present.
G8P2P4	lactose and tramadol are not controlled under [Country] law
GHL8H2	In Sample No. 1 also contained lactose.
GMHT8J	Tramadol is listed under [Country Legislation]
GVJRGL	Item 2 is consistent with lactose.
H3TPD4	Possible Alpha Lactose detected in item #1. Possible Alpha Lactose detected in item #2.
H6HYKJ	We detected tramadol and lactose in Item 1, but tramadol is not controlled as narcotics in our country. Tramadol is a regulated pharmaceutical. We detected only lactose in Item 2.
HCEQTD	Based upon FTIR analysis, both Item 1 and Item 2 were consistent with the presence of lactose monohydrate
HM4JCP	Tramadol is non-controlled per [State] statutes; but one that is federally controlled.
J9UCN4	[State] scheduled Tramadol October 2014. It was added to the [State] Health and Safety Code on September 1, 2017
JA7YE6	Tramadol and Lactose were detected in Item 1. Lactose was detected in Item 2.
JD87PV	Tramadol is listed as a Schedule IV dangerous drug in the [Legislation] effective September 25, 2015.
JWFC3H	Evidence of Methamphetamine was also present in Sample 2.
JY8ACB	Item 2 contains lactose monohydrate.
JZ6HX2	Lactose was detected for both Items.
KCNPUZ	The presence of controlled substances was discarded using GCMS on item 2
KGTA2Y	Tramadol is not controlled per [State] Statutes.
KRQ3KX	FTIR-ATR analysis has spectra similar to lactose, did not confirm substance is lactose.
KTGAGF	Item 2 found to contain reducing sugar

TABLE 3

WebCode	Additional Comments
KWDWB4	Tramadol was detected in Item 1. Lactose was detected in Item 2.
LCZVDM	[Laboratory] is a [Country] laboratory and as such the controlled substances in this analysis have been determined as per [Legislation] (as amended). Please note: Lactose was also indicated as being present in both Item 1 and Item 2. Lactose is not a controlled substance under the provisions of [Legislation] (as amended).
LR2G9J	Tramadol prescription only in [State] until Aug. 9, 2017 when it is listed as a narcotic drug under [State] Revised Statutes.
LZHTQQ	Tramadol is controlled federally, but is not controlled in the state of [State].
MWBR4X	Item 1 - Lactose also detected. Item 2 - Lactose detected.
N47BLE	In items 1 and 2 the presence of lactose was detected
P6WWPV	Lactose was detected in Item 1. Lactose was detected in Item 2.
PHXMCU	Item 1 was presumptively identified, as Tramadol is not controlled in [State] and a standard was not readily available at the time of analysis.
PXDJZ4	For item 1: Tramadol is not specifically controlled in [State]; however, it is controlled federally (Schedule IV). A substance consistent with lactose was also present. For item 2: A substance consistent with lactose was present.
Q38RNB	Lactose cutting agent
QL64JQ	Tramadol was detected in item 1. Tramadol is not a controlled substance in this jurisdiction.
QQ7PP8	The salt forms or cutting agents present in both samples were not determined. The Tramadol in Item 1 was also not quantified.
R2Q3X4	Analytical results for item 2 are consistent with the presence of lactose. This result was not confirmed.
RB77PU	In items 1 and 2 the presence of lactose was detected
RGG8WK	Item 1 contained lactose and 17% of tramadol. ITEM 2 contained lactose.
RRX4RP	question 2a: Lactose was detected in item 2.
RYKNCJ	Tramadol is controlled federally but is not controlled in the State of [State]
T6KE9T	Tramadol was added as a controlled substance in [State] Health and Safety Code as of September 1st, 2017 and has been a Schedule IV drug since October 10th, 2014 in [State].
T82WW4	Tramadol is listed under [Legislation]. Both items 1 and 2 contain Lactose.
TA2LWT	Lactose detected in Item 2
TAJJBE	Item 1 is not controlled under [State] statutes.
TDC2VJ	Item 1 was found to contain tramadol. Tramadol is not a controlled drug listed in the First Schedule to the [Legislation] in [Country]. No common controlled drug was detected in Item 2. Feedback: Since this is an international PT, can international lab (outside US) just identify the substance of interest and do not need to report the controlled status of the substance.
TF2A3Y	Per [Laboratory] Forensic Chemistry Unit interpretation policy: "None identified by routine analytical methods," will be used in the "results" section to describe exhibits that demonstrated unidentified peaks by GCMS, or GCMS library matches for which there is no Drug Reference Standard to use for GCMS confirmation of spectra. This result is reported for Sample 2
TFXMN7	I found Lactose compound as an other substance detected in Item 1 and Item 2 by using FTIR.
TLPVBL	Item 1: 0.229 gram, tramadol. Item 2: 0.290 gram, No controlled substances identified.
TLQG9M	Item 2: Lactose was indicated using FTIR, but could not be confirmed.
UMY98T	Lactose was found in Items 1 and 2.

TABLE 3

WebCode	Additional Comments
UPLXDR	Tramadol was detected in Item 1. Lactose was detected in Item 2.
UQY9QY	Item 1: Tramadol was present in the white powdery substance. Tramadol is listed in the [Country Legislation]. Item 2: No control substance detected from analysis it was found to be lactose.
UT99XR	Possible lactose detected by FTIR in item 2.
UVETKR	Lactose was detected in Item 2 by FTIR.
VMQM8R	In items 1 and 2 the presence of lactose was detected
VRUG7L	In addition to the Tramadol, item 1 also indicated Lactose. Item 2 indicated Lactose.
WAZ6Z6	Item 1: Tramadol was present in the white powdery substance. Tramadol is listed in the [Country Legislation]. Item 2: No Control Substance detected from analysis it was found to be Lactose.
WCUX7A	Item 1 is not controlled per [State] statutes
WD6XU4	Item 1 contained Lactose monohydrate. Item 2 contained Lactose monohydrate.
WGZKPD	Tramadol is a schedule IV federally controlled substance. This substance is not specifically controlled under [State] law.
WTH69A	Item 1 was found to contain tramadol. Tramadol is not a controlled drug listed in the First Schedule to the [Legislation] in [Country]. No common controlled drug was detected in Item 2.
WXC3UK	Both items 1 and 2 contained lactose monohydrate (indicated through Raman)
X6NECP	Tramadol was detected in Item 1. Lactose was detected in Item 2.
XK92UN	Analysis indicated the powders from Item 1 and Item 2 each contained lactose.
XKYBEP	Lactose was detected by FTIR in Item 2.
XLB4ZQ	In [Country] Tramadol is not controlled under our [Legislation] so I have selected 'no controlled drug' as we would report it but would say that it is not controlled under this specific act.
Y4BKTV	Item 1 also contains a compound consistent with lactose. Item 2 contains a compound consistent with lactose.
YYB3NN	[From Tables 1b & 2b - Examination Methods - Color Tests: "Mayers, Cobalt Thiocyanate, Marquis, Froehde, Ehrlich, Sodium Nitroprusside/Sodium Bicarbonate."
ZTPDWQ	Item 1 contains: Tramadol and Lactose. Item 2 contains: Lactose.
ZUGLRN	Item 1, preliminary positive for TRAMADOL. This result cannot be confirmed due to there is no standard available in the lab at this time.
ZVYCDE	Item 2 (Item 001.02): Identified in the analysis was lactose (non-controlled).
ZZ4J8N	For item # 1, GC/MS indicated tramadol. The State of [State] does not list tramadol as a [State] controlled substance. Our laboratory does not maintain a reference material for tramadol.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 17-502: Drug Analysis

DATA MUST BE RECEIVED BY September 25, 2017 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:

An investigator has submitted two questioned powdered substances for analysis. Please examine the samples and determine if any controlled substances are present.

Please note: The controlled status of substances are based on the list in section 1308 of Title 21 Code of Federal Regulations under the United States Controlled Substances Act.

Items Submitted (Sample Pack DA2):

Item 1: First powdered substance

Item 2: Second powdered substance

1a.) Were any controlled substances present in Item 1? If yes, list each substance.

- No controlled substance detected/identified
- Controlled Substance(s) detected/identified (please list below). Indicate salt form if determined.

1b.) What methods were used to examine Item 1?

(If color and/or crystal tests are used, please simply check the appropriate method below. Specific color and crystal tests will not be listed in the summary report.)

Color Tests FTIR LC Crystal Tests GC UV TLC GC/MS Microscopic

Other (specify): _____

Please return all pages of this data sheet.

Page 1 of 3

Participant Code:

WebCode:

2a.) Were any controlled substances present in Item 2? If yes, list each substance.

No controlled substance detected/identified

Controlled Substance(s) detected/identified (please list below). Indicate salt form if determined.

2b.) What methods were used to examine Item 2?

(If color and/or crystal tests are used, please simply check the appropriate method below. Specific color and crystal tests will not be listed in the summary report.)

Color Tests

FTIR

LC

Crystal Tests

GC

UV

TLC

GC/MS

Microscopic

Other (specify): _____

3.) Additional Comments

<p>Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by September 25, 2017 to be included in the report. Emailed data sheets are not accepted.</p> <p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com</p>	<p>Participant Code: ONLINE DATA ENTRY: www.cts-portal.com FAX: +1-571-434-1937 MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>
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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. **17-502: Drug Analysis**

This release page must be completed and received by **September 25, 2017** 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

ASCLD/LAB Certificate No. _____

ANAB Certificate No. _____

A2LA Certificate No. _____

Step 2: Complete the Laboratory Identifying Information in its entirety

Signature and Title _____

Laboratory Name _____

Location (City/State) _____

Return Instructions

Accreditation Release

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

*Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com*

Please return all pages of this data sheet.

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