Drugs of Abuse Screen (250 Analytes) in Urine by LC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

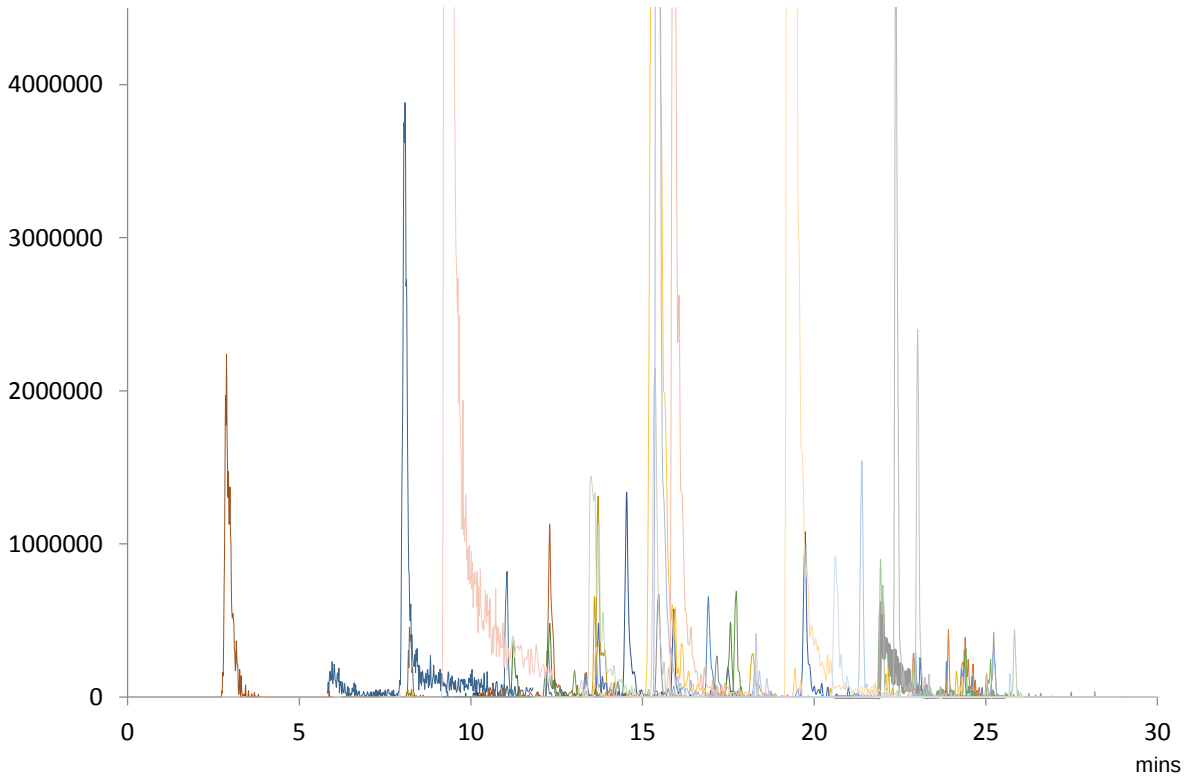
Conditions

Column:	ACE Excel 2 C18-PFP
Dimensions:	100 x 2.1 mm
Part Number:	EXL-1010-1002U
Mobile Phase:	A: 2 mM ammonium acetate + 0.1% formic acid in H_2O
	B: 2 mM ammonium acetate + 0.1% formic acid in MeOH

Time (mins)	%B
0	2
4	2
34	100
38	100
40	2

Flow Rate:	0.3 mL/min
Injection:	10 µL
Temperature:	37 °C
Detection:	Thermo Quantum Ultra MS
	ESI in positive ion mode

Analytes in blue are included in Extracted Ion Chromatogram



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Analyte	R_t	MRM Transitions	Analyte	R_t	MRM Transitions
6-Acetylcodeine	16.9	342.2 > 165.1	Clomethiazole	17.3	161.9 > 113
Alfentanil	21.1	417.4 > 197.2	Clomipramine	27.0	315.1 > 86.1
Alprazolam	23.3	309.11 > 205.1	Clonazepam	23.1	316.1 > 214.2
Aminoclonazepam	13.9	286.2 > 222.3	Clonidine	13.2	230 > 44.2
Aminodesmethylflunitrazepam	20.0	270.1 > 121.1	Clozapine	21.7	327.1 > 192.1
Aminoflunitrazepam	16.2	284.1 > 135.1	Cocaethylene	19.5	318.2 > 82.2
Aminonitrazepam	10.9	252.1 > 94.1	Cocaine	18.0	304.2 > 82.2
Aminorex	12.2	163 > 120.1	Codeine	11.9	300.2 > 153.2
Amiodarone	31.3	646.2 > 100	Cotinine	2.5	177.1 > 80.1
Amisulpride	16.2	370.1 > 242	Creatinine	1.3	114 > 44
Amitriptyline	24.4	278.2 > 91.1	Cyclizine	22.5	267.1 > 167.1
Amlodipine	25.3	409.3 > 238.2	D2PM (Diphenylprolinol)	7.3	254.1 > 130.1
Amlodipine met	22.9	407 > 318	Dehydroaripiprazole	25.3	446.1 > 285.1
Amphetamine	11.6	136.1 > 65.2	Desimipramine	24.3	267.1 > 72.2
Amphetamine-d6	11.6	142.2 > 67.2	N-Desmethylclozapine	21.0	313 > 192.1
Anhydroecgonine methyl ester	9.8	182.2 > 91.1	Desmethylcitalopram	22.4	311.1 > 109.1
Aripiprazole	25.5	448.1 > 285.1	Desmethylflunitrazepam	22.5	300.1 > 254.2
Atenolol	10.7	267.1 >145.1	Desmethylfluoxetine	25.4	296.2 > 134.1
Atomoxetine	23.1	256.2 > 44.1	N-Desmethylmirtazapine	16.1	252.1 > 195.1
Atomoxetine metabolite	22.5	242.2 > 44.1	Desmethylolanzapine	12.6	299.1 > 198.1
Benzedrone	21.7	254 > 65.1	N-Desmethyltramadol	16.7	250.1 > 44.2
Benzoylecgonine	15.6	290.1 > 77.2	O-Desmethyltramadol	12.8	250.1 > 58.2
Benzoylecgonine-d3	15.6	293.2 > 77.2	Desmethylvenlafaxine	15.5	264.3 > 58.1
Benzylpiperazine	5.1	177.2 > 65.1	N-Desmethylzopiclone	20.0	375.1 > 245.1
Bisoprolol	19.9	326.3 > 116.1	Desomorphine	13.1	272.1 > 152.1
Bromazepam	20.4	316 > 182.1	Desoxypipradrol	20.5	252.1 > 91.1
Buphedrone	14.2	178.2 > 160.1	Dextromethorphan	20.0	272.2 > 171.1
Buphedrone ephedrine	13.5	180.4 > 162.2	Diamorphine	16.9	370.1 > 165.1
Bupivacaine	19.5	289.2 > 84.2	Diazepam	25.5	285.1 > 154.1
Buprenorphine glucuronide	18.1	644.4 > 468.4	Didesmethylcitalopram	22.2	297 > 262.1
Bupropion	19.5	240.1 > 131.1	Digoxin	24.2	781.2 > 97
Butylone	14.7	222.1 > 131.1	Dihydrocodeine	11.7	302.2 > 128.1
Caffeine	13.1	195.1 > 110.1	Diltiazem	22.7	415.1 > 178.1
Camfetamine	18.7	202.2 > 67.1	Dimethocaine	16.3	279.3 > 92.1
Carbamazepine	21.5	237.1 > 192.2	Dinitrophenol	18.4	183 > 109
Carbamazepine 10,11-Epoxide	18.6	253.2 > 180.1	Diphenhydramine	21.2	256.1 > 167.1
Cathine	20.0	134.2 > 91.1	Dipipanone	25.0	350.2 > 265.2
Cathinone	9.5	150.2 > 117.1	Donepezil	22.2	380.1 > 91
2C-B-FLY	20.1	286 > 269.1	Dothiepin	23.7	296.2 > 202.2
Chlordiazepoxide	19.5	300.1 > 227.1	Ecgonine ethyl ester	2.5	214.1 > 196.1
Chloroquine	18.5	320.1 > 142.1	Ecgonine methyl ester	1.0	200.1 > 182.1
Chlorpheniramine	20.4	275.1 > 167.2	EDDP	21.4	278.2 > 219.2
Chlorpromazine	25.9	319.2 > 58.1	Estazolam	22.5	295.1 > 267.1
Citalopram	22.2	325.1 > 246.1	Ethylamphetamine	14.5	164.1 > 91.2
Clobazam	22.8	301.1 > 259.2	Ethylmethcathinone	15.8	192.2 > 131.2

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Analyte	R_t	MRM Transitions	Analyte	R_t	MRM Transitions
Ethylphenidate	19.2	248.1 > 56.2	MDAI	12.3	178.19 > 161.1
Etizolam	23.5	343.1 > 314.2	MDEA	15.2	208.1 > 135.1
Fenfluramine	20.3	232.1 > 159.1	MDMA	14.1	194.1 > 135.2
Fentanyl	21.4	337.2 > 105.1	MDPV	18.1	276.1 > 135.1
Flubromazolam	23.2	371.1 > 223.1	MEGX	13.4	207.1 > 58.1
Flunitrazepam	23.5	314.1 > 269.3	MeOPP	13.3	193.2 > 133.1
2-Fluoroamphetamine	13.2	154.1 > 83.1	Mephedrone	14.6	178.1 > 144.2
Fluoroamphetamine interferent	10.6	154 > 67.1	Mescaline	12.7	212.1 > 165.1
3-Fluoromethcathinone	20.0	182.1 > 149.1	Metformin	2.5	130 > 60.1
4-Fluoromethcathinone	20.0	182 > 148.1	Methadone	24.0	310.2 > 105.1
Fluoxetine	25.3	310.1 > 44.2	Methadone-d3	24.0	313.2 > 268.2
Fluphenazine	28.1	438.3 > 143.1	Methamphetamine	12.8	150.1 > 91.2
Flurazepam	21.6	388 > 315	Methaqualone	22.8	251.2 > 91.1
Fluvoxamine	26.0	319.1 > 71	Methedrone	13.9	194.1 > 146.1
Gabapentin	10.5	172.1 > 67.2	Methiopropamine	10.6	156.1 > 97
Glibenclamide	28.2	494.1 > 168.9	Methocarbamol	16.8	242.1 > 118.1
Gliclazide	24.6	324.1 > 110	Methoxetamine	17.2	248.2 > 121.1
Glimepiride	28.4	491.1 > 126	3-Methoxytyramine	6.6	168 > 91
Glipizide	24.5	446.1 > 286	Methylethcathinone	20.0	192.1 > 144.2
Haloperidol	23.1	376.1 > 95.1	Methylhexanamine	13.4	116.1 > 57.3
Hippuric acid	10.9	180 > 77	Methylone	12.7	208.1 > 132.1
Hydrocodone	13.1	300.1 > 199.1	Methylphenidate	16.5	234.1 > 56.2
Hydromorphone	10.4	286.2 > 185.1	5-Methyltryptamine	16.9	175.1 > 143
Hydroxyalprazolam	22.4	325.1 > 216.1	Metoclopramide	17.2	300.1 > 227.1
4-Hydroxyamphetamine	5.4	152.1 > 107.1	Midazolam	20.9	326.1 > 249.1
Hydroxybupropion	18.5	253.1 > 130.1	Mirtazapine	16.6	266.1 > 72.2
4-Hydroxymethamphetamine	20.0	166.1 > 107.1	Mitragynine	22.6	399.3 > 174.1
8-Hydroxymirtazapine	15.6	282.1 > 211	Modafinil	21.1	296.1 > 129
7-Hydroxymitragynine	18.2	415.3 > 175.1	6-Monoacetylmorphine	12.9	328.1 > 165.1
3-Hydroxyphenazepam	23.3	366.9 > 320.8	Mono-N-desethylamiodarone	30.8	618.2 > 547.2
7-Hydroxyquetiapine	15.3	400.3 > 208.1	Morphine	7.7	286.1 > 152.2
9-Hydroxyrisperidone	19.5	427.2 > 69.1	Morphine glucuronide	2.7	462.2 > 201.1
Imipramine	24.2	281.1 > 86.2	Morphine-d3	7.7	289.2 > 152.2
5-Iodo-2-aminoindane	18.4	260.1 > 115.1	Naloxone	20.0	328.3 > 212.1
Ketamine	15.4	238.1 > 125.1	Naphyrone	23.2	282.2 > 141.1
Lamotrigine	16.8	256.1 > 211.1	Nefopam	19.5	254.9 > 166.1
Levamisole	13.3	205.1 > 91.1	Nifoxipam	20.9	316.05 > 298.1
Levetiracetam	8.9	171.2 > 126.1	Nimetazepam	23.6	296.1 > 250.2
Lidocaine	14.8	235.1 > 86.2	Nitrazepam	22.8	282.1 > 236.1
Lorazepam	22.8	321 > 229.1	Noralfentanil/sufentanil	19.4	277.1 > 245.1
Lormetazepam	23.8	335 > 289.1	Norbuprenorphine glucuronide	15.5	590.3 > 414.3
LSD	20.1	324.3 > 223.1	Norcyclizine	21.9	253.2 > 167.1
MCAT	5.4	164.2 > 130.1	Nordiazepam	24.4	271.1 > 140.1
mCPP	17.0	197.1 > 118.1	Nordothiepin	24.4	282.1 > 202.1
MDA	13.4	180.1 > 133.1	Norfentanyl	15.6	233.2 > 56.2

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Analyte	R_t	MRM Transitions	Analyte	R_t	MRM Transitions
Norketamine	14.8	224.1 > 125.1	Propoxyphene	23.6	340.2 > 58.2
Normorphine	3.8	272.1 > 165.2	Propranolol	23.0	260.1 > 157.1
Nornefopam	19.7	240.9 > 166.1	Quetiapine	21.7	384.1 > 221.1
Noroxycodone	13.0	302.1 > 284.1	Remifentanil	18.4	377.3 > 113.1
Norpropoxyphene	23.0	308 > 44.2	Risperidone	20.4	411.1 > 190.8
Norsertraline	20.0	275.3 > 159	Ritalinic acid	14.4	220.2 > 56.1
Nortriptyline	24.6	264.1 > 91.1	Sertraline	25.6	306.1 > 159
Olanzapine	13.4	313.1 > 84.1	Sildenafil	23.6	475.4 > 58.1
Orphenadrine	23.4	270.1 > 181.1	Sildenafil N-oxide	23.9	491.4 > 312.3
Oxazepam	23.5	287.1 > 104.1	Sufentanil	22.9	387.3 > 140.2
Oxybutynin	24.6	358.1 > 141.9	Temazepam	24.2	301.1 > 177.1
Oxycodone	12.9	316.1 > 241.1	Temazepam-d5	24.1	306.1 > 260.2
Oxymorphone	20.0	302 > 227	Tetrazepam	24.5	289.2 > 225.2
Paracetamol	7.8	152.1 > 65.1	TFMPP	7.9	231.1 > 118.1
PCP	20.5	244.3 > 86.2	Theophylline	11.2	181.1 > 124.1
Pentazocine	19.5	286.3 > 175.2	Tramadol	16.9	264.2 > 58.2
Pentedrone	16.0	192.2 > 131.1	Trazodone	23.9	372.2 > 179.2
Phenazepam	24.5	350.9 > 206	Trifluoperazine	28.8	408.2 > 113.2
Pheniramine	15.1	241.2 > 196.2	Trihexyphenidyl	23.7	302.1 > 70.1
Phenytoin	20.0	253.1 > 77	Varenicline	12.3	212.2 > 168.1
Pholcodine	9.2	399.2 > 114.1	Venlafaxine	19.1	278.2 > 58.2
PMA	13.8	149.2 > 91.1	Verapamil	23.9	455.2 > 150.1
PMMA	14.6	180.2 > 121.1	Vigabatrin	2.5	130.1 > 71.1
Powder 20140730	18.7	248.3 > 84.2	Warfarin	25.7	309.1 > 251.1
Prazepam	27.0	325 > 140	Zaleplon	21.5	306.1 > 236.2
Pregabalin	10.4	160.1 > 97.2	Zolpidem	18.8	308.2 > 235.2
Procyclidine	22.4	288.3 > 42	Zolpidem phenyl COOH	15.3	338 > 265.1
Promethazine	20.0	285.1 > 86.2	Zopiclone	16.5	389.1 > 217.1
Propofol	23.9	179 > 137	Zopiclone N-oxide	17.6	405.2 > 217.1
Propofol glucuronide	20.1	372.2 > 148.1			

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