

HPLC Application

ID No.: 25864

Fast Screening Method for 86 Forensic Analytes in Human Urine by LC-MS/MS

Column: Luna® 5 µm C18(2) 100 Å, LC Column 50 x 2 mm, Ea

Dimensions: 50 x 2 mm ID

Order No: 00B-4252-B0

Elution Type: Gradient

Eluent A: 5 mM Ammonium formate in water

Eluent B: 0.1 % Formic acid in methanol

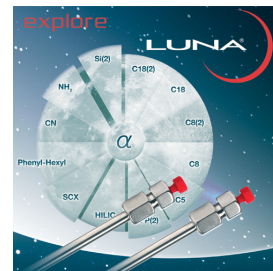
Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	1.8	5	95

Flow Rate: 0.2 mL/min

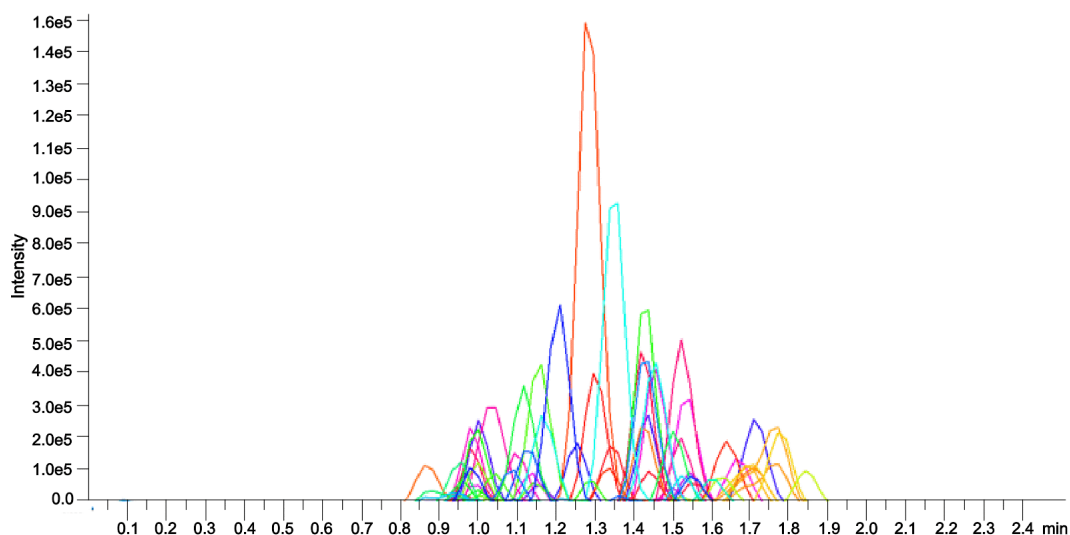
Col. Temp.: ambient

Detection: LC/MS/MS @ (ambient)

Analyst Note: Hydrolyze 100 µL urine by adding 25 µL IMCS RapidHydrolysis Buffer, 20 µL IMCSzyme, and 10 µL IS. All to hydrolyze for 30 to 60 min at 55 °C. After hydrolysis, add 0.8 mL of diluent to the mixture and centrifuge at 21,000 g for 15 min. Transfer supernatant to a glass vial with insert for analysis by LC-MS/MS.



Products used in this application:



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ANALYTES:

1 6-MAM	41 JWH-122 5-OH pentyl	81 Ritalinic Acid
2 7-Aminoclonazepam	42 JWH-210 5-OH pentyl	82 Sufentanil
3 7-Hydroxymitragynine	43 JWH-250 4-OH pentyl	83 Tapentadol
4 Acetyl Fentanyl	44 Lorazepam	84 Temazepam
5 Alpha-Hydroxyalprazolam	45 MDA	85 Tramadol
6 Alpha-Hydroxymidazolam	46 MDEA	86 Zolpidem
7 Alpha-Hydroxytriazolam	47 MDMA	
8 Alpha-PPP	48 MDPV	
9 Alpha-PVP	49 Meperidine	
10 Alprazolam	50 Mephedrone	
11 AM-2201 4-OH pentyl	51 Meprobamate	
12 Amitriptyline	52 Methadone	
13 Amphetamine	53 Methamphetamine	
14 Benzoylcegonine	54 Methedrone	
15 Buphedrone	55 Methylone	
16 Buprenorphine	56 Methylphenidate	
17 Carisoprodol	57 Midazolam	
18 Clomipramine	58 Mitragynine	
19 Codeine	59 Morphine	
20 Cotinine	60 Naloxone	
21 Cyclobenzaprine	61 Naltrexone	
22 Desalkylflurazepam	62 N-desmethyltapentadol	
23 Desipramine	63 Norbuprenorphine	
24 Desmethyldoxepin	64 Norcodeine	
25 Dextromethorphan	65 Nordiazepam	
26 Diazepam	66 Norfentanyl	
27 Dihydrocodeine	67 Norhydrocodone	
28 Doxepin	68 Normeperidine	
29 EDDP	69 Noroxycodone	
30 Fentanyl	70 Norpropoxyphene	
31 Gabapentin	71 Nortriptyline	
32 Hydrocodone	72 O-Desmethyltramadol	
33 Hydromorphone	73 Oxazepam	
34 Imipramine	74 Oxycodone	
35 JWH-018 4-OH pentyl	75 Oxymorphone	
36 JWH-018 pentanoic acid	76 PCP	
37 JWH-019 6-OH hexyl	77 Pregabalin	
38 JWH-073 3-OH butyl	78 Propoxyphene	
39 JWH-073 butanoic acid	79 Protriptyline	
40 JWH-081 5-OH pentyl	80 RCS4-4-OH-pentyl	

