

Opiates on Allure® PFP Propyl

1. morphine
2. oxymorphone
3. hydromorphone
4. codeine
5. 6-monoacetylmorphine
6. oxycodone
7. hydrocodone

Conditions:

Mobile phase: A: 0.1% formic acid in water
B: 0.1% formic acid in 80:20, methanol:acetonitrile

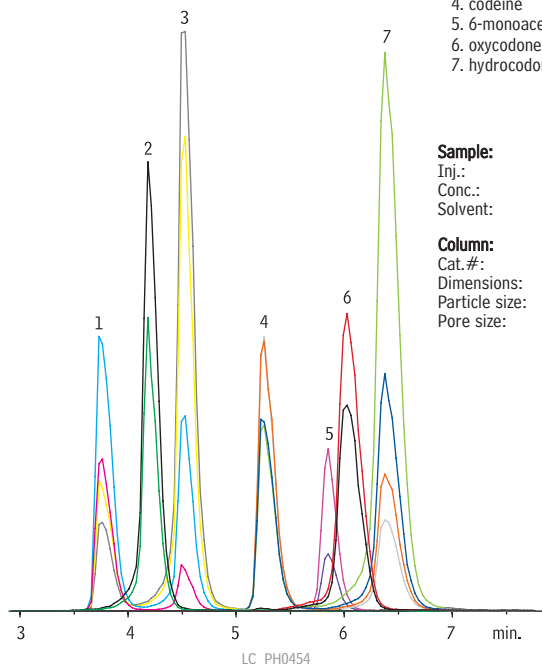
Time:	%B
0.0	10
3.00	50
6.00	50
6.10	10
8.10	Stop pumps

Sample: opiates
Inj.: 10µL
Conc.: 25ug/mL
Solvent: methanol

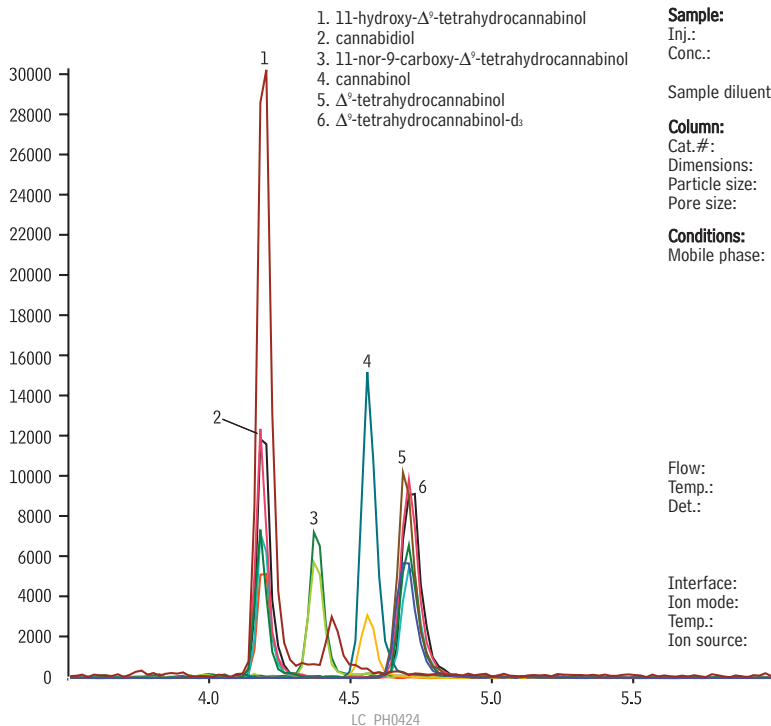
Flow: 0.40mL/min.
Temp.: 30°C

Column: Allure® PFP Propyl
Cat.#: 9169552
Dimensions: 50mm x 2.1mm
Particle size: 5µm
Pore size: 60Å

Det.: Applied Biosystems/MDS Sciex API 3200™ MS/MS system
Ion source: Electrospray, positive
IonSpray voltage: 5500
Gas 1: 65psi (448kPa)
Gas 2: 45psi (310kPa)
Source temp.: 600°C



Compound	Mass Spectrometer Experiments:			
	Q1	Q3	Decustering Potential (V)	Collision Energy (V)
morphine	286	152	46	79
morphine	286	165	46	51
hydromorphone	286	185	46	41
hydromorphone	286	157	46	55
oxymorphone	302	227	36	37
oxymorphone	302	198	36	55
codeine	300	152	46	85
codeine	300	115	46	89
hydrocodone	300	199	46	39
hydrocodone	300	128	46	69
oxycodone	316	240	31	39
oxycodone	316	256	31	33
6-monoacetylmorphine	328	211	51	55
6-monoacetylmorphine	328	193	51	35

Cannabinoids by LC/MS/MS on Allure® Biphenyl
(extracted ions)

1. 11-hydroxy- Δ^9 -tetrahydrocannabinol
2. cannabidiol
3. 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol
4. cannabinal
5. Δ^9 -tetrahydrocannabinol
6. Δ^9 -tetrahydrocannabinol-d₈

Sample:

Inj.: 10µL
Conc.: 100ng/mL each
component
Sample diluent: mobile phase

Column: Allure® Biphenyl
Cat.#: 9166332
Dimensions: 30mm x 2.1mm
Particle size: 3µm
Pore size: 60Å

Conditions:

Mobile phase: A: 0.1% formic acid
in water
B: 0.1% formic acid
in methanol

Time (min.)	%B
0.5	50
2.5	90
5.0	90
6.0	50
6.1	—

Flow: 0.5mL/min.
Temp.: ambient
Det.: Applied Biosystems/
MDS SCIEX API
3200™ MS/MS
system
Interface: ESI
Ion mode: positive
Temp.: 500°C
Ion source: 5500V