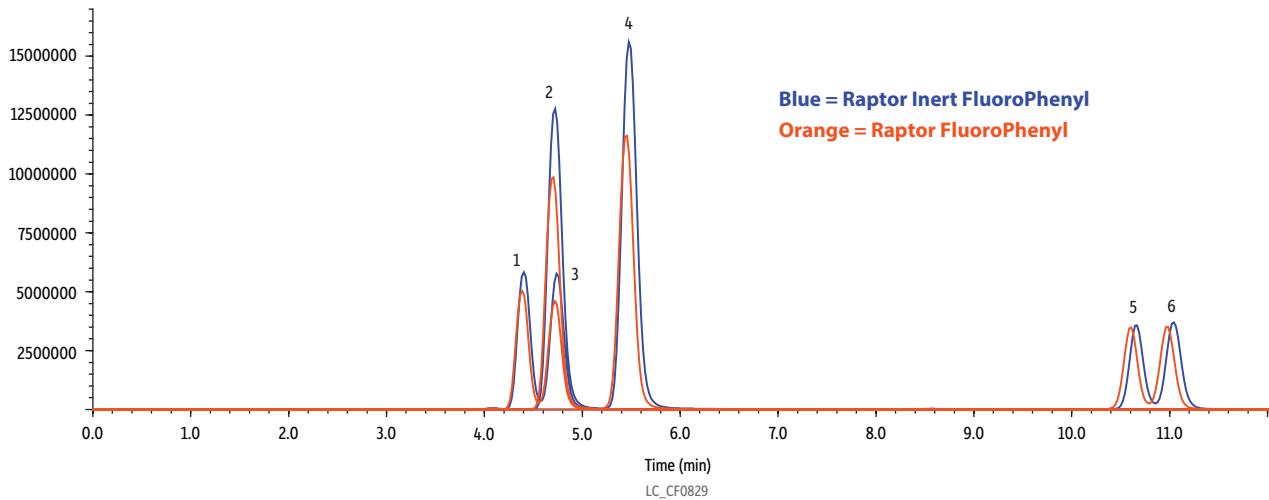


Comparison of Δ9-THC; Δ8-THC; and Metabolites on Raptor FluoroPhenyl vs. Raptor Inert FluoroPhenyl



Raptor Inert FluoroPhenyl

Peak	Analyte	Peak Area	%Increase Peak Area	Peak Height	%Increase Peak Height
1	Δ8-11-OH-THC	25793152	18%	2783646	17%
2	Δ9-11-OH-THC	49056769	27%	4915161	25%
3	Δ8-THC-COOH	46203320	34%	4425630	31%
4	Δ9-THC-COOH	52538793	39%	4760457	32%
5	Δ8-THC	18160680	3%	1781842	2%
6	Δ9-THC	21214891	7%	1905727	3%

Raptor FluoroPhenyl

Peak	Analyte	Peak Area	Peak Height
1	Δ8-11-OH-THC	21886976	2382072
2	Δ9-11-OH-THC	38669407	3932255
3	Δ8-THC-COOH	34589640	3378477
4	Δ9-THC-COOH	37831014	3604706
5	Δ8-THC	17670069	1746882
6	Δ9-THC	19758188	1842244

Peaks	t _R (min)	Precursor	Product 1	Product 2
1. 11-OH-Δ8-THC	100	331.0	313.0	201.1
2. 11-OH-Δ9-THC	100	331.0	313.0	201.1
3. Δ8-THC-COOH	500	345.1	327.0	299.2
4. Δ9-THC-COOH	500	345.1	327.0	299.2
5. Δ8-THC	100	315.0	193.0	123.2
6. Δ9-THC	100	315.0	193.0	123.2

Column See notes.
Dimensions: 100 mm x 3 mm ID
Particle Size: 2.7 μm
Pore Size: 90 Å
Temp.: 40 °C
Standard/Sample Δ8-Tetrahydrocannabinol (Δ8-THC) (cat.# 34090)
 Δ9-Tetrahydrocannabinol (Δ9-THC) (cat.# 34067)
 (±)11-nor-9-carboxy-Δ-9-THC (Δ9-THC-COOH) (cat.# 34068)
 Other compounds obtained separately.
Diluent: 40:60 Water:methanol, both with 0.1% formic acid (v/v)
Inj. Vol.: 5 μL
Mobile Phase
A: Water, 0.1% formic acid
B: Methanol, 0.1% formic acid

Max Pressure: 390 bar
Detector: Shimadzu 8045 MS/MS
Ion Mode: ESI+
Instrument: Shimadzu Nexera X2
Sample Preparation Five hundred microliters of whole blood was transferred to a 12 mL glass test tube. Fifty microliters of internal standard and 50 μL of control material were transferred to the test tube and vortexed. Five hundred microliters of HPLC grade water was added to each sample and vortexed. One hundred microliters of 10% acetic acid was added to each sample and vortexed. Two and a half milliliters of 80:20 hexanes:ethyl acetate was added to each sample and vortexed until visibly combined. Samples were centrifuged at 2800 rpm for 15 minutes. The top layer was transferred to a new glass test tube and dried down under nitrogen. Samples were reconstituted with 100 μL of 40:60 methanol:water, both containing 0.1% formic acid, and vortexed. Samples were transferred to 2 mL screw-thread vials (cat.# 21143) with glass inserts (cat.# 21776) and capped with short-cap, screw-vial closures (cat.# 24498). The column was stored in 100% acetonitrile when not in use.

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	36	64
6.50	0.8	36	64
6.60	0.8	32	68
13.00	0.8	32	68
13.10	0.8	0	100
14.00	0.8	0	100
14.10	0.8	36	64
16.00	0.8	36	64

Notes

Columns are:

Raptor Inert FluoroPhenyl (cat.# 9319A1E-T)
 Raptor FluoroPhenyl (cat.# 9319A1E)