

DMD #85548

**SUPPLEMENTARY**

**Hepatic enzymes relevant to the disposition of (-)- $\Delta^9$ -tetrahydrocannabinol (THC) and its psychoactive metabolite, 11-OH-THC**

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**Supplementary Table 1. MS/MS parameters**

Analyte	Parent Ion ( <i>m/z</i> )	Product Ion ( <i>m/z</i> )	DP (eV)	CE (V)
<b>Cannabinoid studies</b>				
THC	315.2	193.3	100	33
		123.2	100	45
11-OH-THC	331.4	313.4	150	21
		193.3	150	35
COOH-THC	345.3	327.3	150	23
		299.3	150	27
THC-D <sub>3</sub> (IS)	318.3	196.3	100	33
		123.3	100	45
11-OH-THC-D <sub>3</sub> (IS)	334.4	316.3	150	21
		196.3	150	35
COOH-THC-D <sub>3</sub> (IS)	348.3	330.3	150	23
		302.3	150	27
<b>CYP probe cocktail</b>				
4-OH-diclofenac	312.0	231.0	40	27
6 $\beta$ -OH-testosterone	305.3	269.1	90	30
4-OH-mephenytoin	235.0	150.1	45	24
Dextrorphan	258.1	157.0	95	47
Tolbutamide (IS)	271.3	155.0	70	25
<b>UGT probe cocktail</b>				
Naloxone-3-glucuronide	504.0	310.0	70	30
		212.0	70	55
		253.0	70	44
Propofol-glucuronide	353.0	177.0	-70	-30
		113.0	-70	-30
Androsterone-glucuronide (IS)	449.1	255.2	70	25
		273.2	70	30
		467.3	255.2	70

IS – internal standard

The first listed transitions were used for quantification

**Supplementary Table 2. LC gradient program**

<b>Time (min)</b>	<b>Water + 0.1% formic acid (%)</b>	<b>Acetonitrile + 0.1% formic acid (%)</b>	<b>Flow rate (ml/min)</b>
<b>Cannabinoid studies</b>			
Initial	40	60	0.3
0.5	40	60	0.3
3.8	5	95	0.3
4.3	5	95	0.3
4.7	40	60	0.3
6.0	40	60	0.3
<b>CYP probes cocktail</b>			
Initial	95	5	0.6
1.0	95	5	0.6
2.0	5	95	0.6
2.5	5	95	0.6
2.6	95	5	0.6
3.2	95	5	0.6
<b>UGT probes cocktail</b>			
Initial	97	3	0.3
1.0	97	3	0.3
4.5	5	95	0.3
5.5	5	95	0.3
5.7	97	3	0.3
7.0	97	3	0.3