10/23/2024

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Worklist: 6957

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
M2024-3908	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
M2024-4049	3	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ
M2024-4059	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3012	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3040	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3053	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3054	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3098	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3144	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3147	2	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-3157	1	BCK	AM 27 Blood THC Quant by LC-QQQ



AM# 27: Quantitation of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 10/17/2024 Plate lot#: 240919 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: Lampire 24C52816 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Tamara Salazar</u> Plate Retest Date: 03/19/2025 Mobile phase B: 0.1% Formic acid in Acetonitrile Blank Urine Lot: POC021022 LCMS-QQQ ID: 069901

Pre-Analytic:

- \boxtimes 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- ☑ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

- \boxtimes 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. Pipette ID: 42
- ☑ 3. Urine hydrolysis add 100 ul BG turbo, and 200 ul BG turbo buffer to the urine samples in wells of the analytical plate.
- ☑ 4. Add **500µL of 0.1% formic acid in water** in the wells of the analytical plate.
- \boxtimes 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Δ 6. Transfer 700-800µL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 µL
- Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
 (Load at 85-100 PSI- Selector to the right) Manifold ID: 067104
- \boxtimes 8. Wait 5 minutes.
- 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 12. Add 2.25mL Hexane. (Add in 3 increments of 750uL)
- \boxtimes 13. Wait 5 minutes.
- ☑ 14. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. SPE Dry ID: 067103
- ☑ 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \boxtimes 1. Create batch and process data.
- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values ≥ 0.98 for each analyte
- RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less). Ion ratios must be within +/- 20% of the averaged calibrators
- ☑ 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- \boxtimes 5. Enter QCs into control charting.
- ☑ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: THC-OH - 3-100--calibrator 1 dropped due to poor chromatography

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1	P2024-3054-1			IS + QC_1
В	IS + Cal. 2	IS + QC_2	P2024-3098-1			IS + Cal. 7
С	IS + Cal. 3	Neg Blood	P2024-3144-1			IS + Cal. 6
D	IS + Cal. 4	P2024-3012-1	P2024-3147-2			IS + Cal. 5
E	IS + Cal. 5	M2024-3908-1	P2024-3157-1			IS + Cal. 4
F	IS + Cal. 6	M2024-4059-1	Urine Neg			IS + Cal. 3
G	IS + Cal. 7	P2024-3040-1	M2024-4049-3		IS + QC_2	IS + Cal. 2
н	IS + QC_1	P2024-3053-1			IS + QC_1	IS + Cal. 1

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All wells to contain 100 μl of residual DMSO



Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Sample AM 27 Agilent Method.m P5-C2 10 10/17/2024 1:49:06 PM Data File Sample Operator Comment MJ Negative Blood.d MJ Negative Blood Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) QC AM 27 Agilent Method.m P5-H1 10 10/17/2024 1:22:53 PM Data File Sample Operator Comment MJ QC Control Blood__1.d MJ QC Control Blood__1 Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument
Туре
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

Falco (069901) QC AM 27 Agilent Method.m P5-B2 10 10/17/2024 7:56:03 PM Data File Sample Operator Comment MJ QC Control Blood_2.d MJ QC Control Blood_2 Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





 Batch results
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 Calibration Last Update
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Instrument
Туре
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

Falco (069901) Sample AM 27 Agilent Method.m P5-A2 10 10/17/2024 6:37:26 PM Data File Sample Operator Comment Urine Control MJ.d Urine Control MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Sample AM 27 Agilent Method.m P5-F3 10 10/17/2024 7:03:38 PM Data File Sample Operator Comment Urine Negative MJ.d Urine Negative MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.







AM #27 Cannabinoids Quant. Calibration Curve Report

Bato Last Anal	h resu Cal. U lyst Na	lts pdate me	D:\Mass 10/18/20 ISP\data	Hunter\Dat 024 4:42 AI ustor	ta∖2024 M	\AM 27 28\	101724	AM 27 28 TS\\	QuantResu	lts\AM 27.batc	sh.bin
Ana	lyte		THC					Internal	Standard	THC-D3	
Relative Responses	2 - 7 La 1- 0.9- 0.8- 0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0-	evels, 7 Le y = 0.00 R^2 = 0 Type:Lin	evels Used 9536 * x 9999568 ear, Origin	l, 7 Points - 4.02797 1 n:Ignore, 20	s, 7 Po 73E-00 Weigh	ints Used)4 nt:1/x 40	, 2 QCs	60	70 8	30 90 Relative (100 Concentration
		Sample		Leve	4	Enable	h	Expected	Final Co	ncentration	Accuracy

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	~	1.0	1.0	103.2
Cal 2 MJ	2	~	3.0	3.0	98.9
Cal 3 MJ	3	~	5.0	4.9	98.4
Cal 4 MJ	4	~	10.0	9.9	98.8
Cal 5 MJ	5	~	25.0	25.0	100.0
Cal 6 MJ	6	~	50.0	50.4	100.7
Cal 7 MJ	7	~	100.0	99.8	99.8





AM #27 Cannabinoids Quant. Calibration Curve Report

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Batch results Last Cal. Update	D:\MassH 10/18/202	unter\Data\ 24 4:42 AM	2024\AI	M 27 28	\101724	1 AM 27	28 TS\0	QuantRe	esults\A	M 27.ba	tch.bin	
Analyst Name	ISP\datas	tor										
Analyte THC-COOH				I	nternal	Standa	ď	THC-COOH-D9				
THC-COOH - 7 Let Si 2- y = 0.0 R^2 = Type:L 1.8- y = 0.0 R^2 = Type:L 1.4- 0.8- 0.6- 0.4- 0.2- 0- 0- 0	vels, 7 Levels 07878 * x - 0.99993023 inear, Origin	s Used, 7 0.002018 Ignore, W	Points, Veight:: 80	7 Point 1/x 100	ts Used	l, 2 QC	in 160	180	200 F	220 Relative	240 240 240	260 entration
						-		·	•			

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	~	5.0	4.9	98.6
Cal 2 MJ	2	V	10.0	10.3	102.6
Cal 3 MJ	3	V	20.0	19.9	99.6
Cal 4 MJ	4	~	50.0	49.6	99.3
Cal 5 MJ	5	V	75.0	75.4	100.6
Cal 6 MJ	6	V	100.0	99.0	99.0
Cal 7 MJ	7	V	250.0	250.9	100.3





AM #27 Cannabinoids Quant. Calibration Curve Report

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Batch results Last Cal. Update Analyst Name	atch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\ast Cal. Update10/18/2024 4:42 AMnalyst NameISP\datastor								M 27.batch	n.bin	
Analyte	THC-O	Н				Inter	nal Standar	d	THC-OH	-D3	
THC-OH - 6 Level y = 0. $x^{2} = 0.$ $x^{2} = 0.$	els, 6 Levels .015974 * x = 0.999886 Linear, Orig	Used, 6 + 0.003 14 in:Ignore	Points, 6 3968 e, Weigh	6 Points l	Jsed, 2 Ç	<u>P</u> Cs					
0	10	20	30	40	50	60	70	80 R	9 ['] 0 Relative C	100 oncentra	ation

Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 2 MJ	2	~	3.0	3.1	103.5
Cal 3 MJ	3	~	5.0	4.9	98.9
Cal 4 MJ	4	~	10.0	9.7	96.8
Cal 5 MJ	5	~	25.0	25.2	100.7
Cal 6 MJ	6	~	50.0	50.1	100.2
Cal 7 MJ	7	~	100.0	100.0	100.0



Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument
Туре
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

Falco (069901) Cal AM 27 Agilent Method.m P5-A1 10 10/17/2024 11:37:57 AM Data File Sample Operator Comment Cal 1 MJ.d Cal 1 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Falco (069
Cal
AM 27 Agi
P5-B1
10
10/17/202

alco (069901) al M 27 Agilent Method.m 5-B1 0 0/17/2024 11:51:13 AM Data File Sample Operator Comment Cal 2 MJ.d Cal 2 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument
Туре
Acq. Method
Sample Position
Injection Volume
Acq. Date-Time
Sample Info.

Falco (069901) Cal AM 27 Agilent Method.m P5-C1 10 10/17/2024 12:04:18 PM Data File Sample Operator Comment Cal 3 MJ.d Cal 3 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument	Falco
Туре	Cal
Acq. Method	AM 2
Sample Position	P5-D
Injection Volume	10
Acq. Date-Time	10/1
Sample Info.	

alco (069901) Cal M 27 Agilent Method.m 5-D1 0 0/17/2024 12:17:24 PM Data File Sample Operator Comment Cal 4 MJ.d Cal 4 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument	Falco
Туре	Cal
Acq. Method	AM 2
Sample Position	P5-E1
Injection Volume	10
Acq. Date-Time	10/17
Sample Info.	-

alco (069901) Cal M 27 Agilent Method.m 5-E1 0 0/17/2024 12:30:29 PM Data File Sample Operator Comment Cal 5 MJ.d Cal 5 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument	Falco (069
Туре	Cal
Acq. Method	AM 27 Agi
Sample Position	P5-F1
Injection Volume	10
Acq. Date-Time	10/17/202
Sample Info.	

alco (069901) Cal M 27 Agilent Method.m 5-F1 .0 .0/17/2024 12:43:35 PM Data File Sample Operator Comment Cal 6 MJ.d Cal 6 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch resultsD:\MassHunter\Data\2024\AM 27 28\101724 AM 27 28 TS\QuantResults\AM 27.batch.binCalibration Last Update10/18/2024 4:42:39 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P5-G1 10 10/17/2024 12:56:41 PM Data File Sample Operator Comment Cal 7 MJ.d Cal 7 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

