		1/5/2023
		REVIEWED By Britany Wylie at 8:51 pm, Jan 05, 2023
ITEM TYPE	DESCRIPTION	
BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQC	
BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-OOC	

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C2022-2729	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2773	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2776	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2780	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2791	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-2792	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2814	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2816	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2817	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2818	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2842	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2847	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2900	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-2903	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-2908	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 6210

C2022-2701

C2022-2701

C2022-2708

C2022-2710

LAB CASE ITEM

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	1	2	3	4	5	6	7	8	9	10	11	12
A			negative blood	2780-1	2900-1							
В	cal 1		2701-1	2792-1	2908-1							2791-1
с			2701-2	2814-1								2903-1
D			2708-1	2816-2								
E			2710-1	2817-1								
F			2729-1	2818-1								
G			2773-1	2842-1							postive control urine	
н			2776-4	2847-1							negative urine	

C2022-___-

plate position 2

AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date:1/3/23Analyst:Anne NordPlate lot#:220805Plate retest date:02/05/23

Mobile phase A:10mM Ammonium FormateMobile phase B:0.1% Formic Acid in MeOH0.5M Ammonium HydroxideEthyl AcetateLC 20% MethanolBlank Blood Lot:22B52016-1Blank Urine lot:12522LCMS-QQQ ID:6967969679

Pre-Analytic:

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

Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- Z. Urine hydrolysis pipette: 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer mix for at least five minutes ambient temperature.
 Pipette 250 μL blood (calibrated pipette) or 250 ul urine in wells of analytical (standards) plate. Pipette ID: 390993
- 3. Pipette 250 μL of 0.5 M ammonium hydroxide in wells of analytical plate.
- ☑ 4. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- S. Transfer **300 μL of blood or urine+base** mixture to corresponding wells of SLE+ plate.
- 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: 66792
- \boxtimes 7. Wait 5 minutes.
- \boxtimes 8. Add 900 µL ethyl acetate.
- \boxtimes 9. Wait 5 minutes.
- ☑ 10. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- \boxtimes 11. Add **900 \muL ethyl acetate.**
- \boxtimes 12. Wait 5 minutes.
- ☑ 13. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- ☑ 14. Remove plate containing eluate. add 50 ul 1% HCl in MeOH Place on SPE Dry and evaporate to dryness at approx. 35°C.
 - SPE Dry ID: 66819
- I5. Reconstitute in 100 μL 20% LC MeOH in LC Water and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \Box 1. Open quantitation software and create a new quantitation batch.
- \Box 2. Make necessary changes to integration limits
- □ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
- \Box 4. Did all QCs pass for each analyte? (If no is it described in comments?)
- □ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: When the worklist was started the autosampler rammed the hotel after the injection of the first sample. In the process of trying to reset the autosampler the instrument computer shut down and would not restart. Due to the anticipated timeframe to repair or replace the computer this extraction will not be injected or evaluated

On 1/17/23 after the computer and instrument were repaired these samples were injected to test the function of the instrument. They were not evaluated due to the time between extraction and injection being outside the approved window.

	1	2	3	4	5	6
а	cal 1	Internal control urine	2776-4	2847-1		
b	cal 2	negative blood	2780-1	2900-1		
с	cal 3	2701-1	2792-1	2908-1		
d	cal 4	2701-2	2814-1			
е	Cal 5	2708-1	2816-2	2791-1		
f	cal 6	2710-1	2817-1	2903-1		
g	cal 7	2729-1	2818-1	negative urine		
h	Internal control (blood)	2773-1	2842-1			

Plate position 3

c2022-___-

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AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: <u>1/3/23</u> Analyst: <u>Anne Nord</u>

Plate lot#: 220802 Plate retest date: 2/02/23

Mobile phase A:10mM Ammonium FormateMobile phase B:0.1% Formic acid in MeOH0.1% Formic Acid in WaterMTBEHexaneBlank Blood Lot:22B52016-1Urine Blank:12522Column:Agilent Phenyl Hexyl (4.6x50mm: 2.7 um)LCMS-QQQ ID:69679

Pre-Analytic:

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

Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- In the second second

Pipette 1000 μL blood (calibrated pipette) in wells of analytical (standards) plate. Pipette ID: I41142J Pipette 1000 ul urine to analytical (standards) plate.

- \boxtimes 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- A. Pipette 500 μL 0.1% formic acid in blood wells 500 ul saturated phosphate buffer in urine wells of analytical plate.
- \boxtimes 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 8 6. Transfer 800 μL of blood acid or urine acid mixture to corresponding wells of SLE+ plate.
- 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: 66792
- \boxtimes 8. Wait 5 minutes.
- \boxtimes 9. Add 2.25 mL MTBE (add in 3 increments of 750 µL).
- \boxtimes 10. Wait 5 minutes.
- ☑ 11. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- \boxtimes 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
- \boxtimes 13. Wait 5 minutes.
- ☑ 14. Apply positive pressure for approx. 10-15 seconds. (12-15 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: 66819
- 2 16. Reconstitute in 100 μL 100% LCMS MeOH and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

- \Box 1. Create batch and process data.
- □ 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- \Box 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
- \Box 4. Did all QCs pass for each analyte? Yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: When the worklist was started the autosampler rammed the hotel after the injection of the first sample. In the process of trying to reset the autosampler the instrument computer shut down and would not restart. Due to the anticipated timeframe to repair or replace the computer this extraction will not be injected or evaluated.

On 1/17/23 after the computer and instrument were repaired these samples were injected to test the function of the instrument. They were not evaluated due to the time between extraction and injection being outside the approved window.