Worklist: 6247

| LAB CASE | ITEM | ITEM TYPE |
| :---: | :---: | :---: |
| C2023-0060 | 1 | BCK |
| C2023-0084 | 1 | BCK |
| C2023-0128 | 1 | BCK |
| C2023-0168 | 2 | BCK |
| C2023-0186 | 2 | BCK |
| C2023-0202 | 1 | UCK |
| C2023-0212 | 2 | BCK |
| C2023-0223 | 3 | BCK |
| C2023-0257 | 1 | BCK |
| C2023-0266 | 1 | UCK |
| C2023-0268 | 1 | BCK |
| C2023-0269 | 1 | BCK |
| C2023-0293 | 1 | BCK |
| C2023-0317 | 3 | BCK |
| C2023-0319 | 1 | BCK |
| C2023-0352 | 1 | BCK |



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

Extraction Date: 2/13/23
Plate lot\#: 220805

Analyst: Anne Nord
Plate retest date: 02/05/23

Mobile phase A: 10 mM Ammonium Formate 0.5M Ammonium Hydroxide

Mobile phase B: $0.1 \%$ Formic Acid in MeOH
Ethyl Acetate LC 20\% Methanol

Blank Blood Lot: 22B52016-1 Blank Urine lot: 12522 Column: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)
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 $\sim 30$ minutes.

## Analytic:

$\boxtimes$ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
$\boxtimes 2$. 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 $\mathbf{2 5 0} \boldsymbol{\mu} \mathbf{L}$ blood (calibrated pipette) or 250 ul urine in wells of analytical (standards) plate. Pipette ID: 390993
$\boxtimes$ 3. Pipette $\mathbf{2 5 0} \boldsymbol{\mu} \mathrm{L}$ of $\mathbf{0 . 5} \mathbf{M}$ ammonium hydroxide in wells of analytical plate.
$\boxtimes 4$. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
$\boxtimes$ 5. Transfer $\mathbf{3 0 0} \boldsymbol{\mu} \mathbf{L}$ of blood or urine+base mixture to corresponding wells of SLE+ plate.
$\boxtimes 6$. 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 $900 \mu \mathrm{~L}$ ethyl acetate.
$\boxtimes$ 9. Wait 5 minutes.
$\boxtimes$ 10. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
$\boxtimes 11$. Add $900 \mu \mathrm{~L}$ ethyl acetate.
$\boxtimes$ 12. Wait 5 minutes.
$\boxtimes$ 13. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
$\boxtimes$ 14. Remove plate containing eluate. add $50 \mathrm{ul} 1 \% \mathrm{HCl}$ in MeOH Place on SPE Dry and evaporate to dryness at approx. $35^{\circ} \mathrm{C}$.
SPE Dry ID: 66819
$\boxtimes$ 15. Reconstitute in $\mathbf{1 0 0} \boldsymbol{\mu \mathrm { L }} \mathbf{2 0 \%} \mathbf{~ L C ~ M e O H}$ in LC Water and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

$\boxtimes 1$. Open quantitation software and create a new quantitation batch.
$\boxtimes 2$. Make necessary changes to integration limits
$\boxtimes 3$. Evaluate samples, $\mathrm{S} / \mathrm{N}$ of primary transition $>5$ and $\mathrm{S} / \mathrm{N}$ 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.
$\boxtimes$ 4. Did all QCs pass for each analyte? (If no is it described in comments?)
$\boxtimes$ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports
COMMENTS: External controls run for plate re-test.
C2023-0202-1 not evaluated for 6-mam due to low internal standard response.

Toxicology AM method 25/28 urine external control prep
working solution $10000 \mathrm{ng} / \mathrm{ml}$ in meoh diphendydramine, methamphetamine, alprazolam, , morphine Stock solution $1 \mathrm{mg} / \mathrm{ml} 50 \mathrm{ul}$ each in 4800 ul MeOH (VWR 21050767)

| ppd 7/7/22: Exp: 7/7/23 lot 7722 | by AMN |  |
| :--- | :--- | ---: |
|  |  |  |
| Drug | lot | expiration |
| Methamphetamine | FEO3132001 | $7 / 1 / 2025$ |
| alprazolam | FE06102008 | $6 / 1 / 2025$ |
| Diphendydramine | FNO2212011 | $3 / 1 / 2025$ |
| Morphine | FEO3232010 | $4 / 1 / 2025$ |

AM 25/28 control 500 ul working solution (7722) in 4500 ul negative urine ( $\mathbf{1 0 0 0} \mathbf{n g} / \mathrm{mL}$ Expected concentration)
ppd 7/7/22, exp 7/7/23 lot u7722 negative urine 21522 by AMN

AM 25/28 Blood Control: 50ul working solution (7722) in 4950 ul neg blood (100ng/mL Expected concentration)

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A |  |  |  |  |  |  |  |  | 0168-2 | 266-1 |  |  |
| B |  |  |  |  |  |  |  |  | 0186-2 | exteran control urine |  |  |
| C |  |  |  |  |  |  |  |  | 0223-3 | negative <br> urine |  |  |
| D |  |  |  |  |  |  |  |  | 0257-1 | external control blood |  | 0202-1 |
| E |  |  |  |  |  |  |  |  | 0212-2 | negative <br> blood |  |  |
| F |  |  |  |  |  |  |  | 0060-1 | 0268-1 | 0319-1 |  |  |
| G |  |  |  |  |  |  |  | 0084-1 | 0269-1 | 0317-3 |  | Cal 1 |
| H |  |  |  |  |  |  |  | 0128-1 | 0293-1 | 0352-1 |  |  |

plate position 2

# AM \#25 Multi-Drug Screen Results 

| Batch results | D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\mds.batch.bin |
| :--- | :--- |
| Calibration Last Update | $2 / 14 / 2023$ 12:22:26 PM |


| Instrument | 69679 | Data File <br> Sample | am 25 cal g12.d |
| :--- | :--- | :--- | :--- |
| Type | Cal | am 25 cal g12 |  |
| Acq. Method | mds713.m | Operator | Anne Nord |
| Sample Position | P2-G12 | Comment |  |
| Injection Volume | 2.5 |  |  |
| Acq. Date-Time | $2 / 13 / 2023$ 11:14:47 AM |  |  |
| Sample Info. |  |  |  |

Sample Chromatogram


## AM \#25 Multi-Drug Screen Results

| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dextrorphan | 3.524 | 1462797 | 5796.6 | 1486.6 | 5368459 | 10.000 |
| Diazepam | 5.057 | 798423 | 357.3 | 397.2 | 10386904 | 10.000 |
| Dihydrocodeine | 2.877 | 724850 | 1515.5 | 211.4 | 36266547 | 10.000 |
| Dimethyltriptamine | 3.099 | 1248679 | 441.2 | 2202.7 | 11878131 | 10.000 |
| Diphenhydramine | 4.308 | 5371289 | 9031.8 | 432.1 | 36266547 | 10.000 |
| Doxepin | 4.536 | 1238972 | 697.6 | 131.0 | 15738837 | 10.000 |
| Doxylamine | 3.829 | 5176645 | 411.6 | 2005.8 | 2235399 | 10.000 |
| Duloxetine | 4.612 | 54553 | 13895.2 | 1116.3 | 4556939 | 10.000 |
| EDDP | 4.305 | 633433 | 116.2 | 51.7 | 1008943 | 10.000 |
| Estazolam | 4.704 | 2418255 | 1027.7 | 828.5 | 10386904 | 10.000 |
| Etizolam | 4.774 | 119774 | 29996.6 | 107987.2 | 10386904 | 10.000 |
| Fentanyl | 4.698 | 215705 | 31.7 | 36.6 | 10477905 | 10.000 |
| Flualprazolam | 4.607 | 443334 | 69910.3 | 288.6 | 10386904 | 10.000 |
| Flunitrazepam | 4.763 | 1303858 | 371.7 | 322.8 | 10386904 | 10.000 |
| Fluorofentanyl | 4.743 | 203331 | 40741.9 | 158.0 | 10477905 | 10.000 |
| Fluoxetine | 4.594 | 2071629 | 231952.1 | 21613.3 | 4556939 | 10.000 |
| Flurazepam | 4.742 | 1958423 | 2754.9 | 58171.3 | 10386904 | 10.000 |
| Hydrocodone | 3.366 | 840875 | 313.2 | 59.5 | 3904101 | 10.000 |
| Hydromorphone | 2.637 | 666707 | 265.6 | 281.8 | 3904101 | 10.000 |
| hydroxyzine | 5.109 | 2834162 | 619.0 | 6425.2 | 5368459 | 10.000 |
| Imipramine | 4.798 | 4295079 | 1489.0 | $\infty$ | 5296773 | 10.000 |
| Ketamine | 4.202 | 1939370 | 1079.9 | 25.1 | 5368459 | 10.000 |
| Lamotrigine | 3.754 | 153157 | 87.2 | 4493.4 | 3868912 | 10.000 |
| Levamisole | 3.298 | 1354326 | 562.3 | 124.1 | 5368459 | 10.000 |
| Levetiracetam | 2.613 | 549199 | 438.8 | 799.3 | 3868912 | 10.000 |
| Lorazepam | 4.609 | 277645 | $\infty$ | 1927.8 | 10386904 | 10.000 |
| Maprotiline | 4.706 | 429673 | 395.9 | 38.2 | 5296773 | 10.000 |
| MDA | 3.130 | 1678306 | 858.0 | 89.9 | 11878131 | 10.000 |
| MDEA | 3.374 | 2759616 | 104.6 | 1638.1 | 11878131 | 10.000 |
| MDMA | 3.206 | 2871261 | 13428.6 | 242.1 | 11878131 | 10.000 |
| Meperidine | 3.878 | 1459610 | 143.0 | 105.0 | 5368459 | 10.000 |
| Meprobamate | 3.726 | 391061 | 1296.1 | 52.6 | 2511378 | 10.000 |
| Methadone | 4.656 | 3510881 | 432.1 | 400.3 | 1008943 | 10.000 |
| Methamphetamine | 3.101 | 5554190 | $\infty$ | $\begin{array}{r} 1763878 \\ 7487546 \\ 5.0 \end{array}$ | 11878131 | 10.000 |
| Methocarbamol | 3.678 | 256078 | 80.1 | 414.6 | 36266547 | 10.000 |
| Methylphenidate | 3.725 | 4786356 | 3521.8 | 336.4 | 5368459 | 10.000 |
| Metoprolol | 3.569 | 505599 | 158.2 | 6800.5 | 5368459 | 10.000 |
| Midazolam | 4.944 | 412910 | 35050.1 | 41943.5 | 10386904 | 10.000 |
| Mirtazapine | 4.723 | 2088568 | 1069.8 | 729.1 | 5368459 | 10.000 |
| Mitragynine | 4.756 | 264153 | 43015.5 | 134627.9 | 5368459 | 10.000 |
| Morphine | 2.425 | 153477 | 901.4 | 876.7 | 116950 | 10.000 |
| Norbuprenorphine | 4.035 | 51296 | 13170.2 | 13022.8 | 2117887 | 10.000 |
| Nordiazepam | 4.921 | 680455 | 1443.6 | 9679.4 | 10386904 | 10.000 |
| Norfentanyl | 3.449 | 3665361 | 4024.3 | 163.5 | 13961979 | 10.000 |
| Norhydrocodone | 3.031 | 81494 | 108.6 | 36.2 | 3904101 | 10.000 |
| norketamine | 4.218 | 381297 | 55.6 | 158.7 | 5368459 | 10.000 |
| Normeperidine | 3.771 | 1596765 | 253.4 | 598.8 | 3868912 | 10.000 |
| Noroxycodone | 2.984 | 984468 | $\infty$ | 897.4 | 6127014 | 10.000 |
| Nortriptyline | 4.723 | 1524196 | 204151.0 | 291.9 | 5296773 | 10.000 |
| O-desmethyl-tramadol | 2.990 | 4447632 | 23748.2 | 281.0 | 3868912 | 10.000 |
| O-Desmethylvenlafaxine | 3.370 | 1166373 | 527.7 | 3730.2 | 3868912 | 10.000 |
| Olanzapine | 4.301 | 1046242 | 6281.7 | 46515.7 | 70986 | 10.000 |
| Oxazepam | 4.720 | 1379302 | 107.8 | 76.9 | 5898684 | 10.000 |
| Oxycodone | 3.134 | 1662543 | 272.9 | 738.2 | 6127014 | 10.000 |
| Oxymorphone | 2.406 | 833230 | 259.8 | 260.0 | 116950 | 10.000 |
| Paroxetine | 4.638 | 378500 | 66.8 | 21645.2 | 4556939 | 10.000 |
| Phenazepam | 4.835 | 1298136 | 274597.3 | 136490.6 | 10386904 | 10.000 |
| Phencyclidine | 4.124 | 2545696 | 191.2 | 648.2 | 5368459 | 10.000 |


| Name | RT | Resp. | S/N | S/N | ISTD Resp. | Calc. Conc. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Phentermine | 3.269 | 942586 | $\infty$ | $\infty$ | 8870799 | 10.000 |
| Phenytoin | 4.262 | 147245 | 550.6 | 6.5 | 70986 | 10.000 |
| primidone | 3.557 | 243998 | 3157.3 | 122.1 | 5296773 | 10.000 |
| Promethazine | 4.874 | 4613501 | 471.9 | 970.4 | 3868912 | 10.000 |
| Pseudoephedrine | 2.780 | 51986339 | 16022.7 | 12257.9 | 11878131 | 10.000 |
| Quetiapine | 5.063 | 3590915 | 470004.2 | 725954.7 | 19487464 | 10.000 |
| Risperidone | 4.618 | 3020942 | 190.6 | 126.9 | 414761 | 10.000 |
| Sertraline | 4.979 | 1152072 | $\infty$ | $\infty$ | 4556939 | 10.000 |
| Sufentanil | 5.154 | 227205 | 34923.4 | 333.9 | 13961979 | 10.000 |
| Tapentadol | 3.587 | 2937879 | 1499.6 | 1534.2 | 3904101 | 10.000 |
| Temazepam | 4.872 | 2535973 | 493.5 | 93.5 | 10386904 | 10.000 |
| Topiramate | 3.959 | 29264 | 3513.4 | 3188.1 | 96888 | 10.000 |
| Tramadol | 3.584 | 4104175 | 4836.0 | 35.0 | 3868912 | 10.000 |
| Trazodone | 5.278 | 4499600 | 947381.4 | 6971.8 | 15738837 | 10.000 |
| Venlafaxine | 4.013 | 3843052 | 330.4 | 88.7 | 4556939 | 10.000 |
| Zaleplon | 4.503 | 1199667 | 193308.1 | 719.1 | 19487464 | 10.000 |
| Zolpidem | 4.672 | 4960978 | 404006.7 | 749.6 | 19487464 | 10.000 |
| Zopiclone | 4.742 | 535270 | 6603.0 | 336462.3 | 2235399 | 10.000 |

## AM \#25 Multi-Drug Screen Results

## Batch results

D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\mds.batch.bin
Calibration Last Update 2/14/2023 12:22:26 PM

| Instrument | 69679 | Data File | am 25 negative blood e10.d |
| :--- | :--- | :--- | :--- |
| Type | Sample | Sample | am 25 negative blood e10 |
| Acq. Method | mds713.m | Operator | Anne Nord |
| Sample Position | P2-E10 | Comment |  |
| Injection Volume | 2.5 |  |  |
| Acq. Date-Time | $2 / 13 / 202311: 21: 39$ AM |  |  |
| Sample Info. |  |  |  |

## Sample Chromatogram



## AM \#25 Multi-Drug Screen Results

## Batch results

D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\mds.batch.bin
Calibration Last Update 2/14/2023 12:22:26 PM

| Instrument | 69679 | Data File <br> Sample | am 25 blood external control d10.d |
| :--- | :--- | :--- | :--- |
| Type | Sample | am 25 blood external control d10 |  |
| Acq. Method | mds713.m | Operator <br> Comment | Anne Nord |
| Sample Position | P2-D10 |  |  |
| Injection Volume | 2.5 |  |  |
| Acq. Date-Time | $2 / 13 / 2023$ 11:28:22 AM |  |  |
| Sample Info. |  |  |  |

## Sample Chromatogram



## AM \#25 Multi-Drug Screen Results

## Batch results

D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\mds.batch.bin
Calibration Last Update 2/14/2023 12:22:26 PM

| Instrument | 69679 | Data File | am 25 negative control urine c10.d |
| :--- | :--- | :--- | :--- |
| Type | Sample | Sample | am 25 negative control urine c10 |
| Acq. Method | mds713.m | Operator | Anne Nord |
| Sample Position | P2-C10 | Comment |  |
| Injection Volume | 2.5 |  |  |
| Acq. Date-Time | $2 / 13 / 20231: 15: 39 ~ P M$ |  |  |
| Sample Info. |  |  |  |

## Sample Chromatogram



## AM \#25 Multi-Drug Screen Results

## Batch results

D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\mds.batch.bin
Calibration Last Update 2/14/2023 12:22:26 PM

| Instrument | 69679 | Data File | am 25 external control urine b10.d |
| :--- | :--- | :--- | :--- |
| Type | Sample | Sample | am 25 external control urine b10 |
| Acq. Method | mds713.m | Operator | Anne Nord |
| Sample Position | P2-B10 | Comment |  |
| Injection Volume | 2.5 |  |  |
| Acq. Date-Time | $2 / 13 / 2023$ 1:08:57 PM |  |  |
| Sample Info. |  |  |  |

## Sample Chromatogram



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

Extraction Date: 2/13/23 Analyst: Anne Nord
Plate lot\#: $220802 \quad$ Plate retest date: 2/02/23
Mobile phase A: 10 mM Ammonium Formate Mobile phase B: $0.1 \%$ Formic acid in MeOH
$0.1 \%$ Formic Acid in Water
MTBE
Hexane

Blank Blood Lot: 22B52016-1 Urine Blank: 12522
Column: 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 $\sim 30$ minutes.

## Analytic:

$\boxtimes$ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
$\boxtimes 2$. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1 N KOH mix and incubate at 40 degrees for 15 minutes.
Pipette $\mathbf{1 0 0 0} \boldsymbol{\mu}$ L 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.
$\boxtimes$ 4. Pipette $500 \mu \mathrm{~L} \mathbf{0 . 1} \%$ formic acid in blood wells $\mathbf{5 0 0} \mathbf{u l}$ saturated phosphate buffer in urine wells of analytical plate.
$\boxtimes$ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
$\boxtimes$ 6. Transfer $\mathbf{8 0 0} \boldsymbol{\mu L}$ of blood acid or urine acid mixture to corresponding wells of SLE+ plate.
7. 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 $\mathbf{2 . 2 5} \mathbf{~ m L}$ MTBE (add in 3 increments of $750 \mu \mathrm{~L}$ ).
$\boxtimes$ 10. Wait 5 minutes.
$\boxtimes$ 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 $750 \mu \mathrm{~L}$ ).
$\boxtimes 13$. Wait 5 minutes.
$\boxtimes$ 14. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
$\boxtimes 15$. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. $35^{\circ} \mathrm{C}$.
SPE Dry ID: 66819
16. Reconstitute in $\mathbf{1 0 0} \boldsymbol{\mu \mathrm { L }} \mathbf{1 0 0 \%}$ LCMS MeOH and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

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

|  | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| a | cal 1 | Internal control <br> urine | $0257-1$ | external control <br> blood |  |  |
| b | cal 2 | negative blood | $0212-2$ | negative control <br> urine |  |  |
| c | cal 3 | $0060-1$ mixing <br> plate | $0268-1$ | external control <br> urine |  |  |
| d | cal 4 | $0084-1$ | $0269-1$ | $0202-1$ |  |  |
| e | Cal 5 | $0128-1$ | $0293-1$ | $0266-1$ |  |  |
| f | cal 6 | $0168-2$ | $0319-1$ | $0060-1$ SLE and <br> injection plate |  |  |
| g | cal 7 | $0186-2$ | $0317-3$ |  |  |  |
| h | Internal control <br> (blood) | $0223-3$ | $0352-1$ |  |  |  |

Plate position 3
working solution $1.5 \mathrm{ug} / \mathrm{ml}$ in meoh C-THC, THC-OH, $7.5 \mathrm{ug} / \mathrm{ml} \mathrm{THC}$
Stock solution $1 \mathrm{mg} / \mathrm{ml} 7.5$ ul each THC, $100 \mathrm{ug} / \mathrm{ml} 150 \mathrm{ul} \mathrm{C-THC} ,150 \mathrm{ul} \mathrm{THC-OH}$ in 9692.5 ul meOH Ppd 9/27/22 Exp: 9/27/23 lot 92722 by AMN

| Drug | lot | expiration |
| :--- | :--- | :--- |
| C-THC | FE04151901 | $6 / 1 / 2024$ |
| THC-OH | FE06152002 | $6 / 1 / 2025$ |
| THC | FEO4222001 | $5 / 1 / 2025$ |

AM 27/26 blood control 100 ul working solution in 9900 ul blood

| ppd 9/27/22 exp 9/27/23 blood lot <br> $22 B 52016-1$ | lot b92722 | Concentration 7.5 ng/ml THC, <br> $15 \mathrm{ng} / \mathrm{ml} \mathrm{C-THC}$, THC-OH | by amn |
| :--- | :--- | :--- | :--- |

AM 27/26 urine control 400 ul working solution in 9600 ul urine
out of use
\(\left.$$
\begin{array}{|l|l|l|l|l|}\hline \begin{array}{l}\text { ppd 9/27/22 Exp 9/27/23 neg urine } \\
\text { lot 7722 }\end{array} & \text { lot u92722 }\end{array}
$$ \begin{array}{l}Concentration 30 ng/ml THC, and <br>

60 \mathrm{ng} / \mathrm{ml} \mathrm{C-THC,} \mathrm{THC-OH}\end{array}\right)\) by amn |  |
| :--- |
|  |

## AM \#26 Cannabinoids Screen Results

| Batch results | D:\MassHunter\Data\2023\am 25-26\021323\QuantResults\cann.batch.bin |  |  |
| :--- | :--- | :--- | :--- |
| Calibration Last Update | $2 / 14 / 2023$ 12:23:47 PM |  |  |
|  |  |  |  |
| Instrument | 69679 | Data File | qc $5-10 \mathrm{ng}$ blood.d |
| Type | QC | Sample | qc $5-10 \mathrm{ng}$ blood |
| Acq. Method | am 26 cann scr 5-5-20.m | Operator | Anne Nord |
| Sample Position | P3-H1 | Comment |  |
| Injection Volume | 5 |  |  |
| Acq. Date-Time | $2 / 13 / 20232: 48: 18 ~ P M ~$ |  |  |
| Sample Info. |  |  |  |

## Sample Chromatogram



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results




| Sample | Level | Enabled | Expected <br> Concentration | Final Concentration | Accuracy |
| :---: | :---: | :---: | :---: | :---: | :---: |
| cal 1 | 1 | $\checkmark$ | 1.0 | 1.2 | 115.1 |
| cal 2 | 2 | $\checkmark$ | 3.0 | 3.0 | 98.6 |
| cal 3 | 3 | $\checkmark$ | 5.0 | 4.7 | 93.1 |
| cal 4 | 4 | $\checkmark$ | 10.0 | 9.4 | 93.9 |
| cal 5 | 5 | $\checkmark$ | 25.0 | 24.6 | 98.4 |
| cal-6 | 6 | $\checkmark$ | 50.0 | 49.6 | 99.2 |
| cal-7 | 7 | $\checkmark$ | 100.0 | 101.6 | 101.6 |



| Sample | Level | Enabled | Expected <br> Concentration | Final Concentration | Accuracy |
| :---: | :---: | :---: | :---: | :---: | :---: |
| cal 1 | 1 | $\checkmark$ | 5.0 | 5.0 | 101.0 |
| cal 2 | 2 | $\checkmark$ | 10.0 | 9.8 | 97.9 |
| cal 3 | 3 | $\checkmark$ | 20.0 | 20.1 | 100.7 |
| cal 4 | 4 | $\checkmark$ | 50.0 | 50.5 | 101.0 |
| cal 5 | 5 | $\checkmark$ | 75.0 | 71.5 | 95.3 |
| cal-6 | 6 | $\checkmark$ | 100.0 | 101.6 | 101.6 |
| cal-7 | 7 | $\checkmark$ | 250.0 | 256.4 | 102.6 |



| Sample | Level | Enabled | Expected <br> Concentration | Final Concentration | Accuracy |
| :---: | :---: | :---: | :---: | :---: | :---: |
| cal 1 | 1 | $\checkmark$ | 1.0 | 1.1 | 111.5 |
| cal 2 | 2 | $\checkmark$ | 3.0 | 2.9 | 96.9 |
| cal 3 | 3 | $\checkmark$ | 5.0 | 4.9 | 97.1 |
| cal 4 | 4 | $\checkmark$ | 10.0 | 9.6 | 96.1 |
| cal 5 | 5 | $\checkmark$ | 25.0 | 24.4 | 97.5 |
| cal-6 | 6 | $\checkmark$ | 50.0 | 49.8 | 99.6 |
| cal-7 | 7 | $\checkmark$ | 100.0 | 101.4 | 101.4 |

## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results

| Batch results | D: $\backslash$ MassHunter\Data\2023\am 25-26\021323\QuantResults\cann.batch.bin |
| :--- | :--- |
| Calibration Last Update | $2 / 14 / 2023$ 12:23:47 PM |


| Instrument | 69679 | Data File <br> Sample | cal 4.d |
| :--- | :--- | :--- | :--- |
| Type | Cal | cal 4 |  |
| Acq. Method | am 26 cann scr 5-5-20.m | Operator <br> Oample Position | P3-D1 |

## Sample Chromatogram



| Name | RT | Resp. | ISTD Resp. | Final Conc. |
| :--- | ---: | ---: | ---: | ---: |
| THC | 4.385 | 84884 | 1001626 | $9.391 \mathrm{ng} / \mathrm{ml}$ |
| THC-COOH | 3.912 | 555346 | 802323 | $50.512 \mathrm{ng} / \mathrm{ml}$ |
| THC-OH | 3.999 | 97752 | 5539131 | $9.612 \mathrm{ng} / \mathrm{ml}$ |

## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



## AM \#26 Cannabinoids Screen Results



