



Verification of Calibration Curve

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|---|--|
| Analyte | Cannabinoids [11-hydroxy-tetrahydrocannabinol (11-OH-THC), 11-nor-9-carboxy-THC (THC-COOH), cannabidiol (CBD), delta9-THC, and delta8-THC] |
| Units of Measure | ng/mL |
| Analyst Performing Verification Studies | Cassandra Duvall |
| Responsible Supervisor | Melissa Henry |
| Start Date | August 4, 2022 |
| Completion Date | August 19, 2022 |
| Primary Matrix | Blood |
| Secondary Matrix | N/A |
| Low Calibrator Concentration | 1.0 ng/mL for 11-OH-THC, CBD, delta9-THC, and delta8-THC; 5.0 ng/mL for THC-COOH |
| Highest Calibrator Concentration | 100 ng/mL for 11-OH-THC, CBD, delta9-THC, and delta8-THC; 250 ng/mL for THC-COOH |
| Equipment/Instrument | LCMS-2 |
| Instrument Serial Number | SG1936G104 |
| Method | THC.m |

Verification Approval

Analyst: **Cassandra Duvall**

Digitally signed by Cassandra Duvall
DN: cn=Cassandra Duvall, o=Houston Forensic Science Center,
ou=Toxicology, email=cduvall@houstonforensicscience.org,
c=US
Date: 2022.08.22 08:40:33 -05'00'

8/22/2022

Date

Responsible Supervisor: **Melissa Henry**

Melissa Henry
cn=Melissa Henry, o=Houston Forensic Science
Center, ou=Toxicology, email=mhenry@hfsctx.gov,
c=US
2022.08.22 09:18:00 -05'00'

8/22/2022

Date

Verification

Analyte: 11-OH-THC

Units: ng/mL

Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Batch Name: THC_20220804B_CD

Calibration

| Calibrator | Target Conc. | Current Cals (x)* | New Cals (y)* | % Difference |
|------------|--------------|-------------------|---------------|--------------|
| Cal 1 | 1.0 | 0.92 | 0.94 | 1.89 |
| Cal 2 | 2.0 | 1.90 | 1.99 | 4.70 |
| Cal 3 | 5.0 | 5.52 | 4.99 | -9.65 |
| Cal 4 | 10 | 10.40 | 10.18 | -2.08 |
| Cal 5 | 20 | 19.29 | 17.66 | -8.45 |
| Cal 6 | 50 | 51.87 | 50.40 | -2.83 |
| Cal 7 | 100 | 98.10 | 97.05 | -1.07 |

*Calculated concentrations using current calibration lot

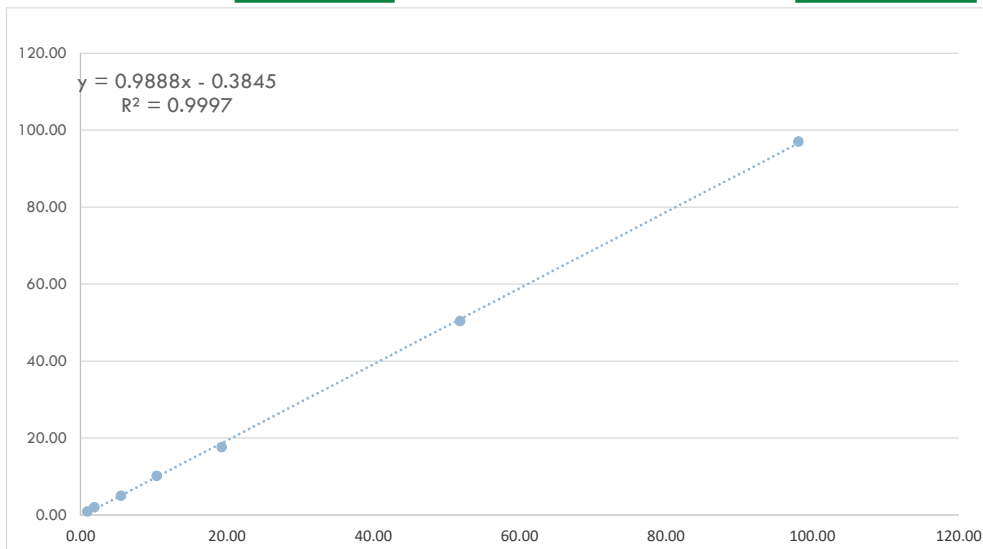
| | |
|-------------------------|-----------------|
| Slope | 0.9906 |
| Std err in slope | 0.0308 |
| Confidence level | 95% |
| 95% CI Range | 0.9052 - 1.0761 |
| | PASS |

| | |
|-----------------------------|------------------|
| Intercept | -0.50878 |
| Std err in Intercept | 0.34907 |
| Confidence Level | 95% |
| 95% CI Range | -1.4780 - 0.4604 |
| | PASS |

New Calibrator Lot

| Sample | Nominal Conc. | Concentration | % of Nominal | |
|--------|---------------|---------------|--------------|-------------|
| Cal 1 | 1.0 | 0.97 | 3.06 | PASS |
| Cal 2 | 2.0 | 2.05 | -2.36 | PASS |
| Cal 3 | 5.0 | 5.13 | -2.53 | PASS |
| Cal 4 | 10 | 10.45 | -4.55 | PASS |
| Cal 5 | 20 | 18.13 | 9.36 | PASS |
| Cal 6 | 50 | 51.71 | -3.42 | PASS |
| Cal 7 | 100 | 99.56 | 0.44 | PASS |
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Calculated concentrations using new calibration lot



Pass/Review Pass
Comments:

Approved? YES -- 8/20/2022 mh

Verification

Analyte: THC-COOH

Units: ng/mL

Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Batch Name: THC_20220804B_CD

Calibration

| Calibrator | Target Conc. | Current Cals (x)* | New Cals (y)* | % Difference |
|------------|--------------|-------------------|---------------|--------------|
| Cal 1 | 5.0 | 4.84 | 5.07 | 4.77 |
| Cal 2 | 10 | 9.69 | 10.18 | 5.01 |
| Cal 3 | 25 | 26.55 | 24.93 | -6.09 |
| Cal 4 | 50 | 52.02 | 49.82 | -4.23 |
| Cal 5 | 100 | 95.47 | 90.44 | -5.27 |
| Cal 6 | 250 | 251.43 | 240.22 | -4.46 |

*Calculated concentrations using current calibration lot

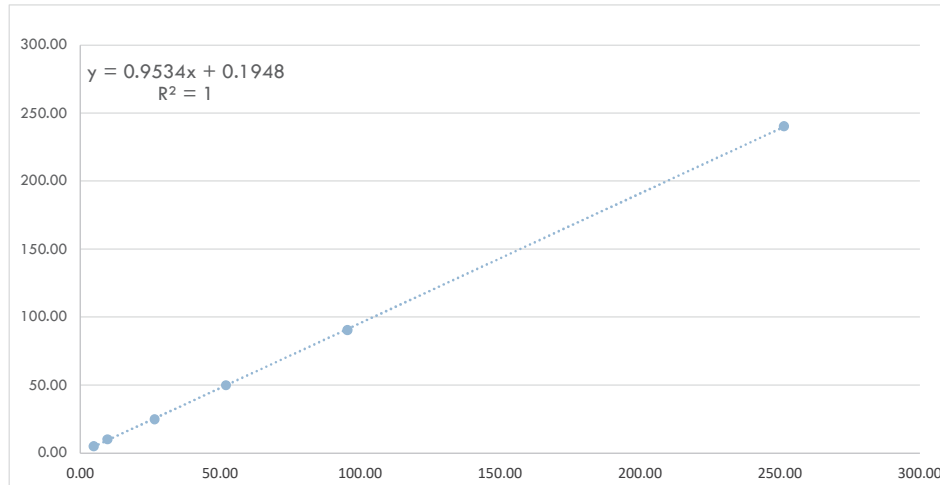
| | |
|-------------------------|-----------------|
| Slope | 0.9534 |
| Std err in slope | 0.0065 |
| Confidence Level | 95% |
| 95% CI Range | 0.9352 - 0.9716 |
| | REVIEW |

| | |
|-----------------------------|------------------|
| Intercept | 0.19480 |
| Std err in Intercept | 0.32930 |
| Confidence Level | 95% |
| 95% CI Range | -0.7195 - 1.1091 |
| | PASS |

New Calibrator Lot

| Sample | Nominal Conc. | Concentration | % of Nominal | |
|--------|---------------|---------------|--------------|-------------|
| Cal 1 | 5.0 | 4.78 | 4.30 | PASS |
| Cal 2 | 10 | 10.17 | -1.72 | PASS |
| Cal 3 | 25 | 25.72 | -2.88 | PASS |
| Cal 4 | 50 | 51.95 | -3.89 | PASS |
| Cal 5 | 100 | 94.76 | 5.24 | PASS |
| Cal 6 | 250 | 252.61 | -1.05 | PASS |
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Calculated concentrations using new calibration lot



| | |
|-------------|---|
| Pass/Review | Review |
| Comments: | When the current calibrator is compared to the new calibrator, the 95% CI of slope does not include 1. However when individually compared to the target concentration, the slope of the new lot of calibrators includes 1 (See next page for data and graph). Verified controls (211110K-Q-MXA and 211112K-Q-MXB) also showed acceptable results when quantified against new calibrators. The new calibrator lots are deemed acceptable for casework. |
| Approved? | YES -- 8/20/2022 mh |

Verification

Analyte: THC-COOH
 Units: ng/mL
 Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH
 New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH
 Batch Name: THC_20220804B_CD

Current Calibrators

| Calibrator | Target Conc.(x) | Current Cals (y) | % Difference |
|------------|-----------------|------------------|--------------|
| Cal 1 | 5.0 | 4.84 | -3.22 |
| Cal 2 | 10 | 9.69 | -3.05 |
| Cal 3 | 25 | 26.55 | 6.19 |
| Cal 4 | 50 | 52.02 | 4.04 |
| Cal 5 | 100 | 95.47 | -4.53 |
| Cal 6 | 250 | 251.43 | 0.57 |

| | |
|-------------------------|-----------------|
| Slope | 1.0007 |
| Std err in slope | 0.0249 |
| Confidence level | 95% |
| 95% CI Range | 0.9214 - 1.0800 |
| PASS | |

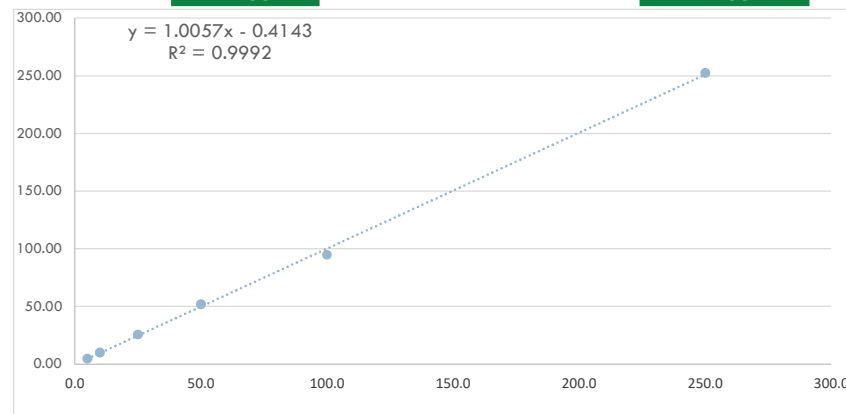
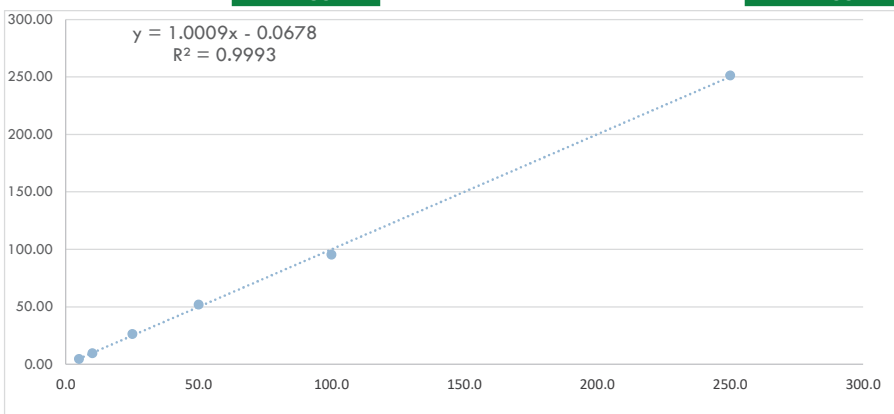
| | |
|-----------------------------|------------------|
| Intercept | -0.02988 |
| Std err in Intercept | 0.85199 |
| Confidence Level | 95% |
| 95% CI Range | -2.7413 - 2.6815 |
| PASS | |

New Calibrators

| Calibrator | Target Conc.(x) | New Cals (y) | % Difference |
|------------|-----------------|--------------|--------------|
| Cal 1 | 5.0 | 4.78 | -4.30 |
| Cal 2 | 10 | 10.17 | 1.72 |
| Cal 3 | 25 | 25.72 | 2.88 |
| Cal 4 | 50 | 51.95 | 3.89 |
| Cal 5 | 100 | 94.76 | -5.24 |
| Cal 6 | 250 | 252.61 | 1.05 |

| | |
|-------------------------|-----------------|
| Slope | 1.0057 |
| Std err in slope | 0.0315 |
| Confidence level | 95% |
| 95% CI Range | 0.9181 - 1.0932 |
| PASS | |

| | |
|-----------------------------|------------------|
| Intercept | -0.41433 |
| Std err in Intercept | 1.57501 |
| Confidence Level | 95% |
| 95% CI Range | -4.7873 - 3.9586 |
| PASS | |



Verification

New Lots of Calibration Solutions

Analyte: CBD

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

Units: ng/mL

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Instrument: LCMS-2

Batch Name: THC_20220804B_CD

Calibration

| Calibrator | Target Conc. | Current Cals (x)* | New Cals (y)* | % Difference |
|------------|--------------|-------------------|---------------|--------------|
| Cal 1 | 1.0 | 0.98 | 1.08 | 10.70 |
| Cal 2 | 2.0 | 2.12 | 2.18 | 3.05 |
| Cal 3 | 5.0 | 4.87 | 5.32 | 9.22 |
| Cal 4 | 10 | 9.50 | 10.25 | 7.91 |
| Cal 5 | 20 | 20.65 | 19.14 | -7.31 |
| Cal 6 | 50 | 50.92 | 52.46 | 3.02 |
| Cal 7 | 100 | 98.96 | 105.71 | 6.82 |

*Calculated concentrations using current calibration lot

| | |
|-------------------------|-----------------|
| Slope | 1.0642 |
| Std err in slope | 0.0246 |
| Confidence level | 95% |
| 95% CI Range | 1.0010 - 1.1274 |

REVIEW

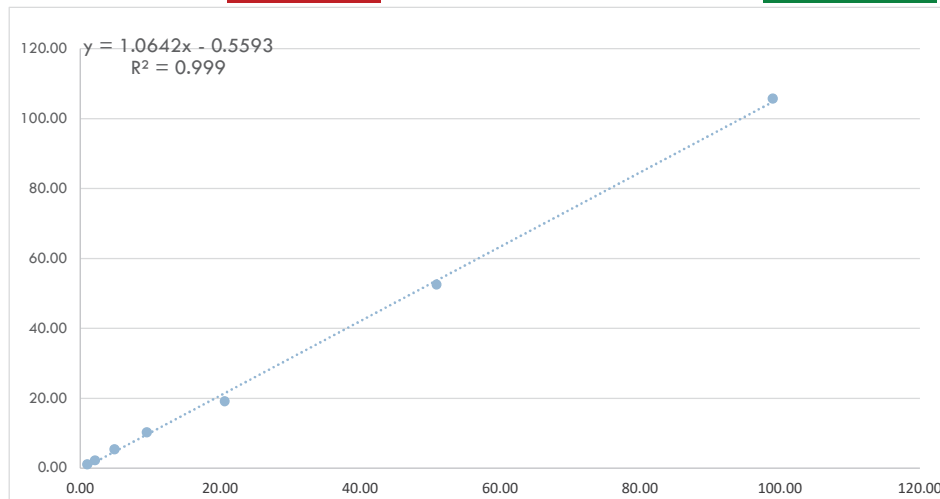
| | |
|-----------------------------|------------------|
| Intercept | -0.55930 |
| Std err in Intercept | 0.56217 |
| Confidence Level | 95% |
| 95% CI Range | -2.0044 - 0.8858 |

PASS

New Calibrator Lot

| Sample | Nominal Conc. | Concentration | % of Nominal | |
|--------|---------------|---------------|--------------|-------------|
| Cal 1 | 1.0 | 1.02 | -2.43 | PASS |
| Cal 2 | 2.0 | 2.08 | -3.89 | PASS |
| Cal 3 | 5.0 | 5.09 | -1.87 | PASS |
| Cal 4 | 10 | 9.81 | 1.90 | PASS |
| Cal 5 | 20 | 18.33 | 8.35 | PASS |
| Cal 6 | 50 | 50.39 | -0.78 | PASS |
| Cal 7 | 100 | 101.28 | -1.28 | PASS |
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Calculated concentrations using new calibration lot



Pass/Review **Review**

Comments: When the current calibrator is compared to the new calibrator, the 95% CI of slope does not include 1. However when individually compared to the target concentration, the slope of the new lot of calibrators includes 1 (See next page for data and graph). Verified controls (211110K-Q-MXA and 211112K-Q-MXB) also showed acceptable results when quantified against new calibrators. The new calibrator lots are deemed acceptable for casework.

Approved? **YES -- 8/20/2022 mh**

Verification

Analyte: CBD

Units: ng/mL

Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Batch Name: THC_20220804B_CD

Current Calibrators

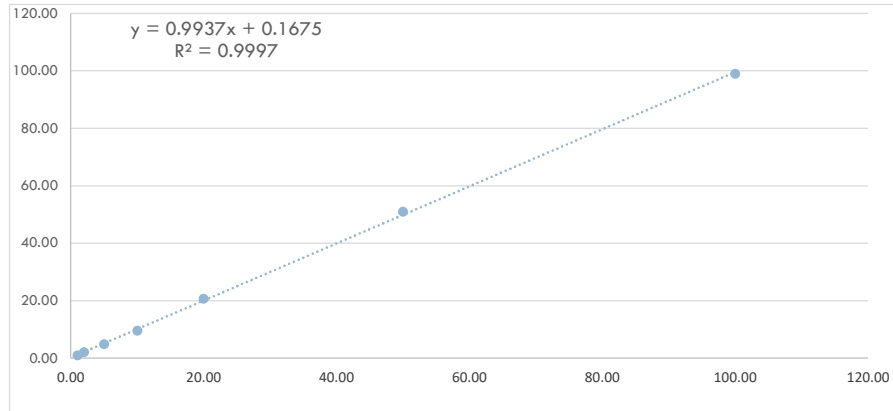
| Calibrator | Target Conc.(x) | Current Cals (y) | % Difference |
|------------|-----------------|------------------|--------------|
| Cal 1 | 1.00 | 0.98 | -2.44 |
| Cal 2 | 2.00 | 2.12 | 5.77 |
| Cal 3 | 5.00 | 4.87 | -2.59 |
| Cal 4 | 10.00 | 9.50 | -5.01 |
| Cal 5 | 20.00 | 20.65 | 3.25 |
| Cal 6 | 50.00 | 50.92 | 1.84 |
| Cal 7 | 100.00 | 98.96 | -1.04 |

| | |
|-------------------------|-----------------|
| Slope | 0.9937 |
| Std err in slope | 0.0083 |
| Confidence level | 95% |
| 95% CI Range | 0.9724 - 1.0151 |

PASS

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|-----------------------------|------------------|
| Intercept | 0.16755 |
| Std err in Intercept | 0.19005 |
| Confidence Level | 95% |
| 95% CI Range | -0.3210 - 0.6561 |

PASS



New Calibrators

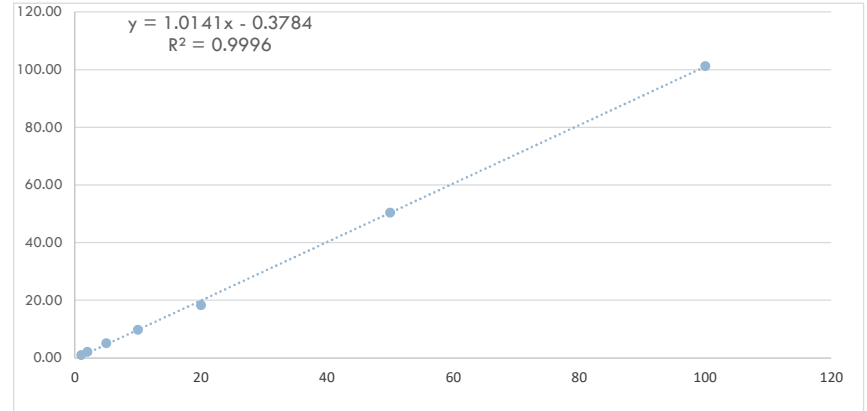
| Calibrator | Target Conc.(x) | New Cals (y) | % Difference |
|------------|-----------------|--------------|--------------|
| Cal 1 | 1 | 1.02 | 2.43 |
| Cal 2 | 2 | 2.08 | 3.89 |
| Cal 3 | 5 | 5.09 | 1.87 |
| Cal 4 | 10 | 9.81 | -1.90 |
| Cal 5 | 20 | 18.33 | -8.35 |
| Cal 6 | 50 | 50.39 | 0.78 |
| Cal 7 | 100 | 101.28 | 1.28 |

| | |
|-------------------------|-----------------|
| Slope | 1.0141 |
| Std err in slope | 0.0196 |
| Confidence level | 95% |
| 95% CI Range | 0.9636 - 1.0646 |

PASS

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|-----------------------------|------------------|
| Intercept | -0.37845 |
| Std err in Intercept | 0.43941 |
| Confidence Level | 95% |
| 95% CI Range | -1.5080 - 0.7511 |

PASS



Verification

New Lots of Calibration Solutions

Analyte: delta-9 THC
 Units: ng/mL
 Instrument: LCMS-2

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH
 New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH
 Batch Name: THC_20220804B_CD

Calibration

| Calibrator | Target Conc. | Current Cals (x)* | New Cals (y)* | % Difference |
|------------|--------------|-------------------|---------------|--------------|
| Cal 1 | 1.0 | 0.93 | 1.07 | 14.95 |
| Cal 2 | 2.0 | 1.93 | 2.18 | 12.80 |
| Cal 3 | 5.0 | 5.46 | 5.48 | 0.43 |
| Cal 4 | 10 | 9.78 | 10.75 | 9.92 |
| Cal 5 | 20 | 20.54 | 19.89 | -3.19 |
| Cal 6 | 50 | 51.27 | 54.41 | 6.12 |
| Cal 7 | 100 | 98.08 | 105.29 | 7.35 |

*Calculated concentrations using current calibration lot

| | |
|-------------------------|-----------------|
| Slope | 1.0732 |
| Std err in slope | 0.0215 |
| Confidence level | 95% |
| 95% CI Range | 1.0180 - 1.1284 |

REVIEW

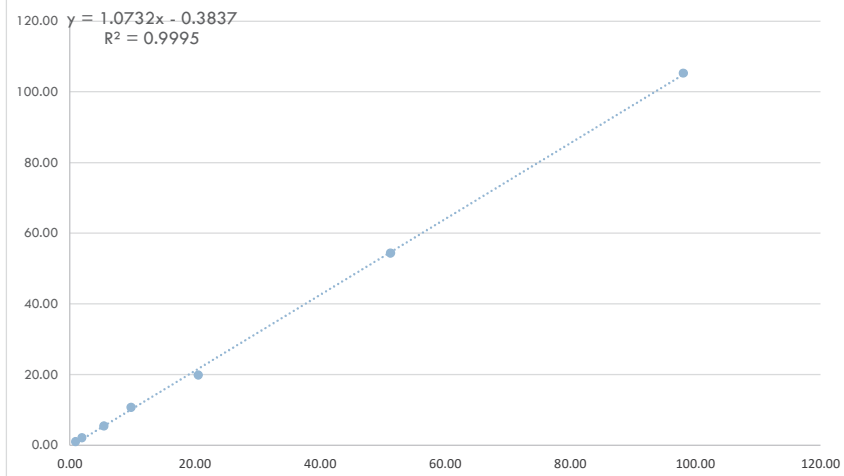
| | |
|-----------------------------|------------------|
| Intercept | -0.38368 |
| Std err in Intercept | 0.49441 |
| Confidence Level | 95% |
| 95% CI Range | -1.6546 - 0.8872 |

PASS

New Calibrator Lot

| Sample | Nominal Conc. | Concentration | % of Nominal | |
|--------|---------------|---------------|--------------|-------------|
| Cal 1 | 1.0 | 0.98 | 2.02 | PASS |
| Cal 2 | 2.0 | 2.03 | -1.56 | PASS |
| Cal 3 | 5.0 | 5.15 | -2.93 | PASS |
| Cal 4 | 10 | 10.12 | -1.20 | PASS |
| Cal 5 | 20 | 18.77 | 6.15 | PASS |
| Cal 6 | 50 | 51.41 | -2.82 | PASS |
| Cal 7 | 100 | 99.55 | 0.45 | PASS |
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Calculated concentrations using new calibration lot



Pass/Review **Review**
 Comments: When the current calibrator is compared to the new calibrator, the 95% CI of slope does not include 1. However when individually compared to the target concentration, the slope of the new lot of calibrators includes 1 (See next page for data and graph). On the next page, the 95% CI of y-intercept of the current calibrator does not contain 0. However the y-intercept of the new lot of calibrators includes 0. Verified controls (211110K-Q-MXA and 211112K-Q-MXB) also showed acceptable results when quantified against new calibrators. The new calibrator lots are deemed acceptable for casework.
 Approved? **YES -- 8/20/2022 mh**

Verification

Analyte: delta9-THC

Units: ng/mL

Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Batch Name: THC_20220804B_CD

Current Calibrators

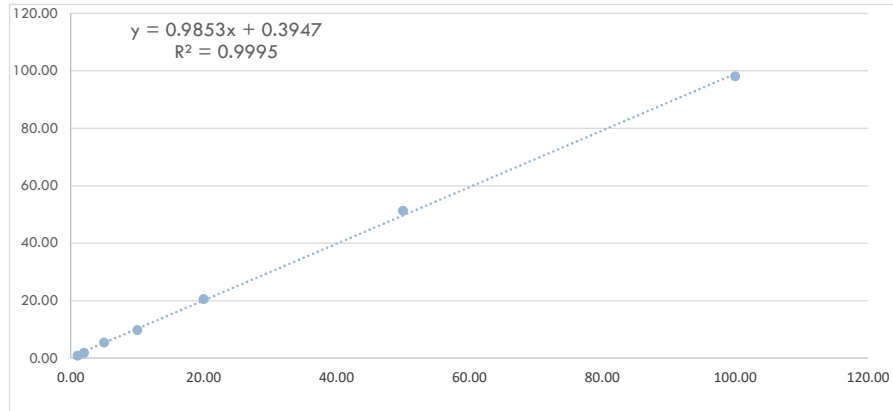
| Calibrator | Target Conc.(x) | Current Cals (y) | % Difference |
|------------|-----------------|------------------|--------------|
| Cal 1 | 1.00 | 0.93 | -6.92 |
| Cal 2 | 2.00 | 1.93 | -3.37 |
| Cal 3 | 5.00 | 5.46 | 9.13 |
| Cal 4 | 10.00 | 9.78 | -2.20 |
| Cal 5 | 20.00 | 20.54 | 2.72 |
| Cal 6 | 50.00 | 51.27 | 2.54 |
| Cal 7 | 100.00 | 98.08 | -1.92 |

| | |
|-------------------------|-----------------|
| Slope | 0.9853 |
| Std err in slope | 0.0066 |
| Confidence level | 95% |
| 95% CI Range | 0.9683 - 1.0023 |

PASS

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|-----------------------------|-----------------|
| Intercept | 0.39474 |
| Std err in Intercept | 0.15231 |
| Confidence Level | 95% |
| 95% CI Range | 0.0032 - 0.7863 |

REVIEW



New Calibrators

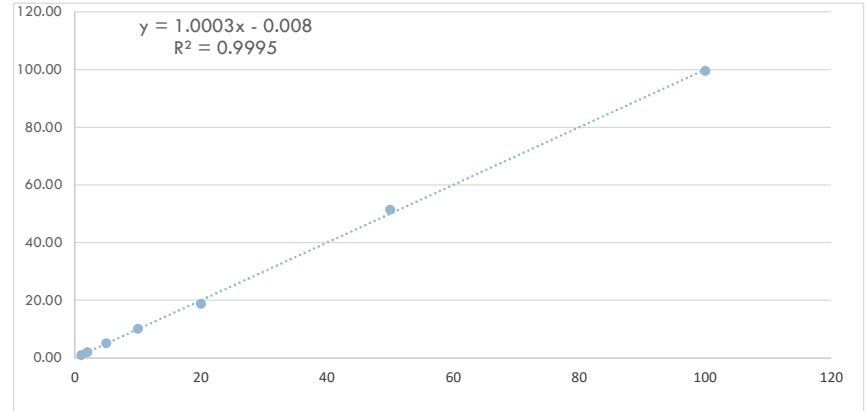
| Calibrator | Target Conc.(x) | New Cals (y) | % Difference |
|------------|-----------------|--------------|--------------|
| Cal 1 | 1 | 0.98 | -2.02 |
| Cal 2 | 2 | 2.03 | 1.56 |
| Cal 3 | 5 | 5.15 | 2.93 |
| Cal 4 | 10 | 10.12 | 1.20 |
| Cal 5 | 20 | 18.77 | -6.15 |
| Cal 6 | 50 | 51.41 | 2.82 |
| Cal 7 | 100 | 99.55 | -0.45 |

| | |
|-------------------------|-----------------|
| Slope | 1.0003 |
| Std err in slope | 0.0182 |
| Confidence level | 95% |
| 95% CI Range | 0.9536 - 1.0470 |

PASS

| | |
|-----------------------------|------------------|
| Intercept | -0.00800 |
| Std err in Intercept | 0.41492 |
| Confidence Level | 95% |
| 95% CI Range | -1.0746 - 1.0586 |

PASS



Verification

New Lots of Calibration Solutions

Analyte: delta-8 THC

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

Units: ng/mL

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

Instrument: LCMS-2

Batch Name: THC_20220804B_CD

Calibration

| Calibrator | Target Conc. | Current Cals (x)* | New Cals (y)* | % Difference |
|------------|--------------|-------------------|---------------|--------------|
| Cal 1 | 1.0 | 0.99 | 0.95 | -4.04 |
| Cal 2 | 2.0 | 1.97 | 1.91 | -3.19 |
| Cal 3 | 5.0 | 5.42 | 4.68 | -13.65 |
| Cal 4 | 10 | 9.28 | 9.35 | 0.75 |
| Cal 5 | 20 | 19.98 | 17.16 | -14.11 |
| Cal 6 | 50 | 51.53 | 46.72 | -9.33 |
| Cal 7 | 100 | 98.83 | 92.44 | -6.47 |

*Calculated concentrations using current calibration lot

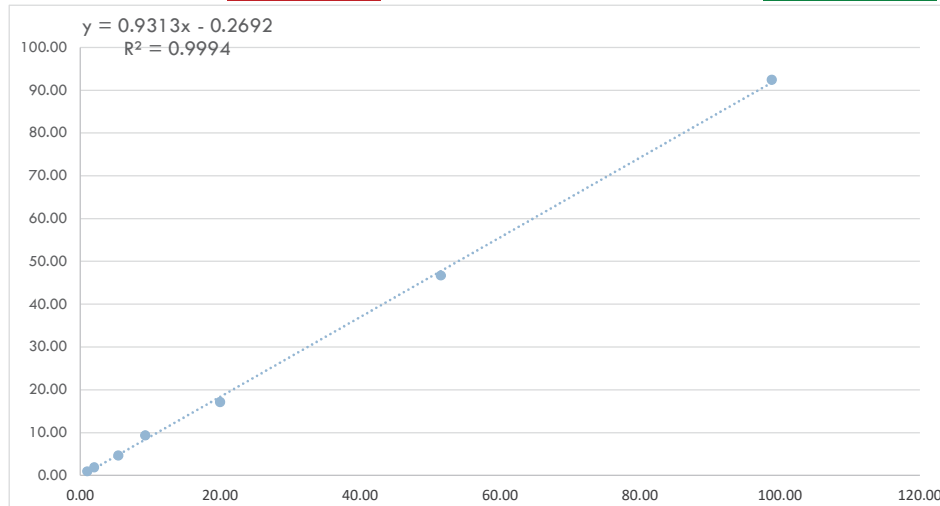
| | |
|-------------------------|-----------------|
| Slope | 0.9313 |
| Std err in slope | 0.0156 |
| Confidence Level | 95% |
| 95% CI Range | 0.8912 - 0.9715 |
| | REVIEW |

| | |
|-----------------------------|------------------|
| Intercept | -0.26919 |
| Std err in Intercept | 0.35916 |
| Confidence Level | 95% |
| 95% CI Range | -1.1924 - 0.6541 |
| | PASS |

New Calibrator Lot

| Sample | Nominal Conc. | Concentration | % of Nominal | |
|--------|---------------|---------------|--------------|-------------|
| Cal 1 | 1.0 | 1.01 | -1.00 | PASS |
| Cal 2 | 2.0 | 2.05 | -2.30 | PASS |
| Cal 3 | 5.0 | 5.05 | -1.00 | PASS |
| Cal 4 | 10 | 10.11 | -1.10 | PASS |
| Cal 5 | 20 | 18.58 | 7.10 | PASS |
| Cal 6 | 50 | 50.63 | -1.26 | PASS |
| Cal 7 | 100 | 100.58 | -0.58 | PASS |
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| | | | | |
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Calculated concentrations using new calibration lot



| | |
|-------------|---|
| Pass/Review | Review |
| Comments: | When the current calibrator is compared to the new calibrator, the 95% CI of slope does not include 1. However when individually compared to the target concentration, the slope of the new lot of calibrators includes 1 (See next page for data and graph). Verified controls (211110K-Q-MXA and 211112K-Q-MXB) also showed acceptable results when quantified against new calibrators. The new calibrator lots are deemed acceptable for casework. |
| Approved? | YES -- 8/20/2022 mh |

Verification

Analyte: delta8-THC

Units: ng/mL

Instrument: LCMS-2

New Lots of Calibration Solutions

Current Lot #: 210825C-C-MXL, 210825C-C-MXM and 210825C-C-MXH

New Lot #: 220711C-C-MXL, 220711C-C-MXM and 220711C-C-MXH

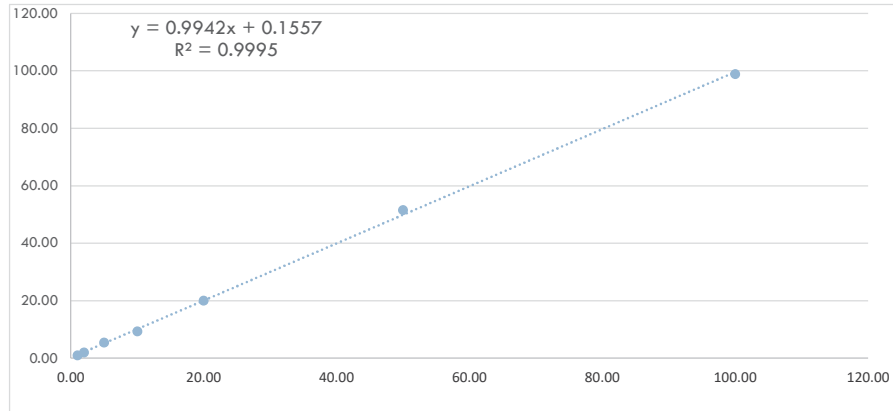
Batch Name: THC_20220804B_CD

Current Calibrators

| Calibrator | Target Conc.(x) | Current Cals (y) | % Difference |
|------------|-----------------|------------------|--------------|
| Cal 1 | 1.00 | 0.99 | -1.00 |
| Cal 2 | 2.00 | 1.97 | -1.35 |
| Cal 3 | 5.00 | 5.42 | 8.40 |
| Cal 4 | 10.00 | 9.28 | -7.20 |
| Cal 5 | 20.00 | 19.98 | -0.10 |
| Cal 6 | 50.00 | 51.53 | 3.06 |
| Cal 7 | 100.00 | 98.83 | -1.17 |

| | |
|-------------------------|-----------------|
| Slope | 0.9942 |
| Std err in slope | 0.0121 |
| Confidence level | 95% |
| 95% CI Range | 0.9632 - 1.0253 |
| PASS | |

| | |
|-----------------------------|------------------|
| Intercept | 0.15571 |
| Std err in Intercept | 0.27784 |
| Confidence Level | 95% |
| 95% CI Range | -0.5585 - 0.8699 |
| PASS | |



New Calibrators

| Calibrator | Target Conc.(x) | New Cals (y) | % Difference |
|------------|-----------------|--------------|--------------|
| Cal 1 | 1 | 1.01 | 1.00 |
| Cal 2 | 2 | 2.05 | 2.30 |
| Cal 3 | 5 | 5.05 | 1.00 |
| Cal 4 | 10 | 10.11 | 1.10 |
| Cal 5 | 20 | 18.58 | -7.10 |
| Cal 6 | 50 | 50.63 | 1.26 |
| Cal 7 | 100 | 100.58 | 0.58 |

| | |
|-------------------------|-----------------|
| Slope | 1.0078 |
| Std err in slope | 0.0178 |
| Confidence level | 95% |
| 95% CI Range | 0.9620 - 1.0536 |
| PASS | |

| | |
|-----------------------------|------------------|
| Intercept | -0.20910 |
| Std err in Intercept | 0.40092 |
| Confidence Level | 95% |
| 95% CI Range | -1.2397 - 0.8215 |
| PASS | |

