



**REVIEWED**  
By Sarah Collins at 10:44 am, Nov 21, 2023

TS

11/21/2023

**Worklist: 6568**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2023-3910	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2023-4194	3	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
M2023-4195	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
M2023-4294	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2023-4381	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2023-4483	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2023-4533	2	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
P2023-3012	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3101	1	UCK	AM 28 Urine Multi-Drug Confirmation Panel 1 by LC-	
P2023-3110	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3119	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3193	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3275	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3277	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3293	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3294	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3304	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3318	1	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3321	1	BLOOD	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2023-3345	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

## AM# 28: Multi-Drug Quantitation by LC-MS/MS

Extraction Date: 11/17/2023  
 Plate lot#: 230707  
 Mobile phase A: 5mM Amm Form + 0.01% FA  
 Blank Blood Lot: Lampire 23E52981  
 Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

Analyst: Tamara Salazar  
 Plate Retest Date: 01/07/2024  
 Mobile phase B: 0.01% Formic Acid in MeOH  
 Blank Urine Lot: POC021022  
 LCMS-QQQ ID: 069901

### Pre-Analytic:

- 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.
- 3. Create worklist

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. **Urine Hydrolysis: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.**
- 3. Using a calibrated pipette, pipette 250µL blood or 250µL hydrolyzed urine in wells of analytical (standards) plate. Pipette ID: 42
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base/urine+base** mixture to corresponding wells of SLE+ plate. *Transferred: 250uL*
- 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)*
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate.**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900uL ethyl acetate.**
- 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.
- 16. Add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying. This step is required for urine samples, but optional for blood samples.
- 17. Reconstitute in 100µL 20% LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.
- 2. Make necessary changes to integration limits
- 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

COMMENTS: **Compounds included in central data:** 7-aminoclonazepam, alprazolam, amphetamine, benzoylecgonine, bupropion, clonazepam, cyclobenzaprine, dextromethorphan, diphenhydramine, doxylamine, duloxetine, fentanyl, fluoxetine, hydromorphone, ketamine, lamotrigine, methamphetamine, metoprolol, morphine, norfentanyl, noroxycodone, oxazepam, oxycodone, oxymorphone, quetiapine, sertraline, pseudoephedrine

7-aminoclonazepam: 5-500--calibrator 8 dropped due to accuracy

Amphetamine: 5-250--calibrators 7 & 8 dropped due to accuracy

**Fentanyl: Qualitative only due to QC 1000 accuracy being outside tolerance**

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	M2023-3910-2	P2023-3275-1	Urine Neg							
B	IS + Cal. 2	IS + QC_2	M2023-4294-3	P2023-3277-1	M2023-4194-3							
C	IS + Cal. 3	IS + QC_3	M2023-4381-3	P2023-3293-1	M2023-4195-2							
D	IS + Cal. 4	IS + QC_4	M2023-4483-1	P2023-3294-1	M2023-4533-2							
E	IS + Cal. 5	IS + QC_2	P2023-3012-2	P2023-3304-1	P2023-3101-1							
F	IS + Cal. 6	Neg Blood	P2023-3110-3	P2023-3318-1								
G	IS + Cal. 7	P2023-2871-1	P2023-3119-1	P2023-3321-1								
H	IS + Cal. 8	P2023-2876-1	P2023-3193-1	P2023-3345-1								

All wells to contain 60 µl of Trapping Solution

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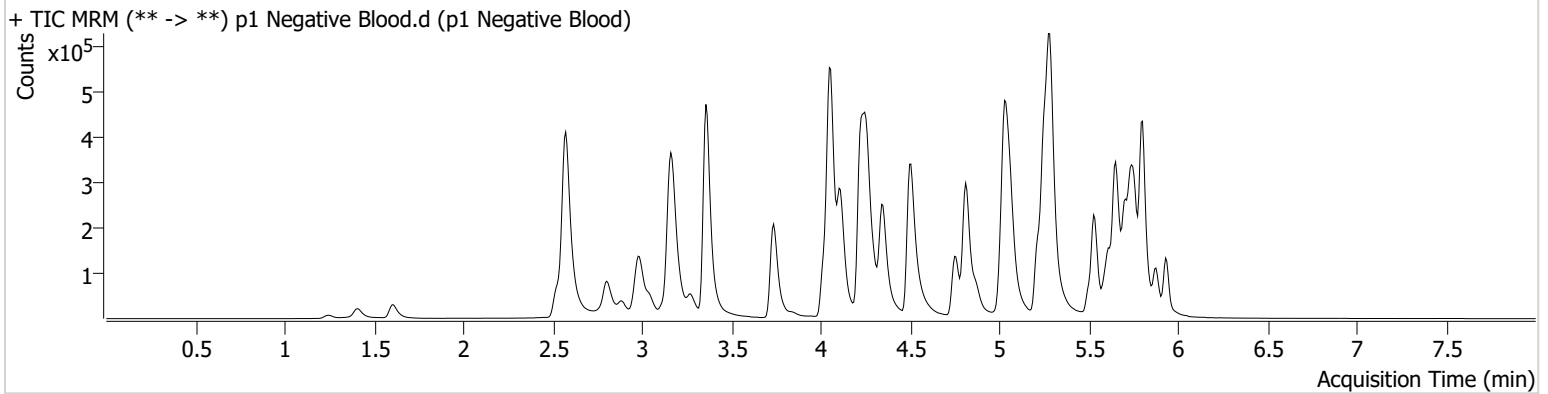


# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	p1 Negative Blood
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Tamara Salazar
<b>Sample Position</b>	P2-F2	<b>Comment</b>	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.
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	11/17/2023 2:20:31 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



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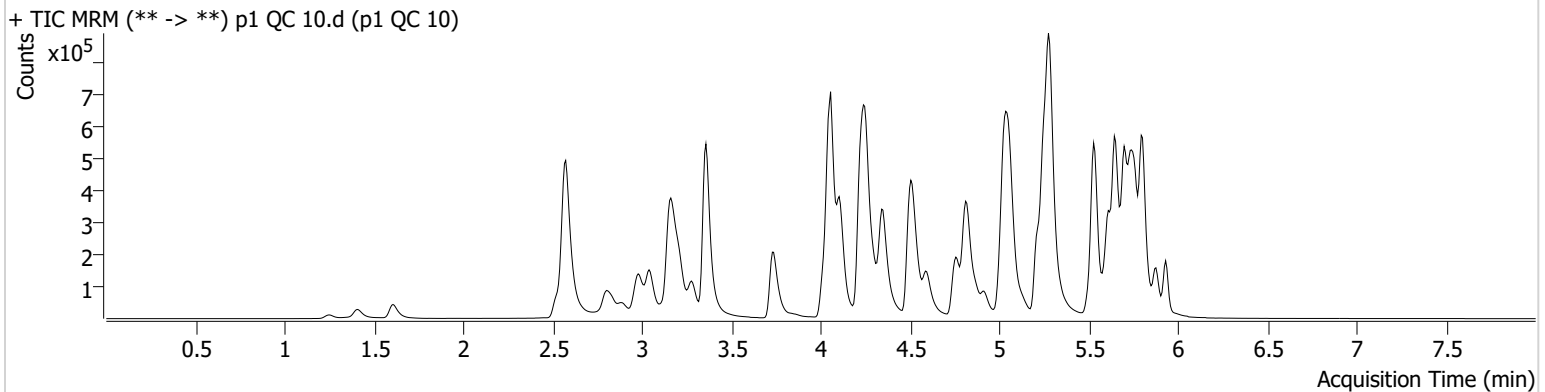
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 QC 10.d  
**Type** QC **Sample** p1 QC 10  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-A2 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 1:16:43 PM  
**Sample Info.**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	39014	63.10	82.0	216.83	165127	10.4684 ng/ml
Alprazolam	5.760	77006	623.03	121.8	502.07	369696	9.8545 ng/ml
Amphetamine	3.043	213494	6484.26	46.4	2442.25	274853	10.1510 ng/ml
Benzoylcegonine	3.871	4083	717.86	6.4	∞	15019	9.6718 ng/ml
Bupropion	4.772	143472	18649.67	68.1	148.85	433945	10.2586 ng/ml
Clonazepam	5.595	101756	3525.71	34.0	185737.68	128718	10.5366 ng/ml
Cyclobenzaprine	5.619	107426	1794.38	10.3	25862.58	505003	9.8535 ng/ml
Dextromethorphan	5.263	84916	132.44	82.1	3832.33	381146	10.2438 ng/ml
Diphenhydramine	5.284	316452	2601.06	27.2	139.71	1517873	9.8935 ng/ml
Doxylamine	4.518	260732	1615.59	101.7	1867.24	1222041	9.9483 ng/ml
Duloxetine	5.645	12575	964.47	9.5	36.81	64991	10.9957 ng/ml
Fentanyl	5.075	9551	89.64	84.7	71.09	611612	0.9612 ng/ml
Fluoxetine	5.705	132033	3174.02	7.2	14343.16	459018	9.8862 ng/ml
Hydromorphone	1.615	34036	656.46	74.3	9502.13	109341	9.9800 ng/ml
Ketamine	4.030	101264	266.83	37.5	97.14	391215	10.3713 ng/ml
Lamotrigine	4.267	9279	450.69	88.7	12258.64	1348553	10.1048 ng/ml
Methamphetamine	3.218	192040	765.49	40.5	2051.28	933564	10.4198 ng/ml
Metoprolol	4.314	28422	330.53	101.1	111685.51	1089626	10.7698 ng/ml
Morphine	1.253	5826	192.09	28.8	111.03	9566	10.1851 ng/ml
Norfentanyl	4.071	23688	295.50	35.0	156.21	996005	0.9635 ng/ml
Noroxycodone	2.910	31424	173.22	46.3	283.97	102686	9.8551 ng/ml
Oxazepam	5.741	100794	830.49	76.2	289.06	533270	10.6191 ng/ml
Oxycodone	2.828	85662	1929.88	28.4	1240.10	315365	10.2531 ng/ml
Oxymorphone	1.411	23257	773.97	46.9	453.51	77611	10.3441 ng/ml
Pseudoephedrine	2.582	261617	1485.16	16.8	2347.90	1348553	9.9824 ng/ml
Quetiapine	5.510	148977	2251.34	51.7	224950.83	180060	10.7304 ng/ml
Sertraline	5.767	39985	622.40	100.3	29636.32	174027	10.8469 ng/ml

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# AM #28 Multi-Drug Quant. Results

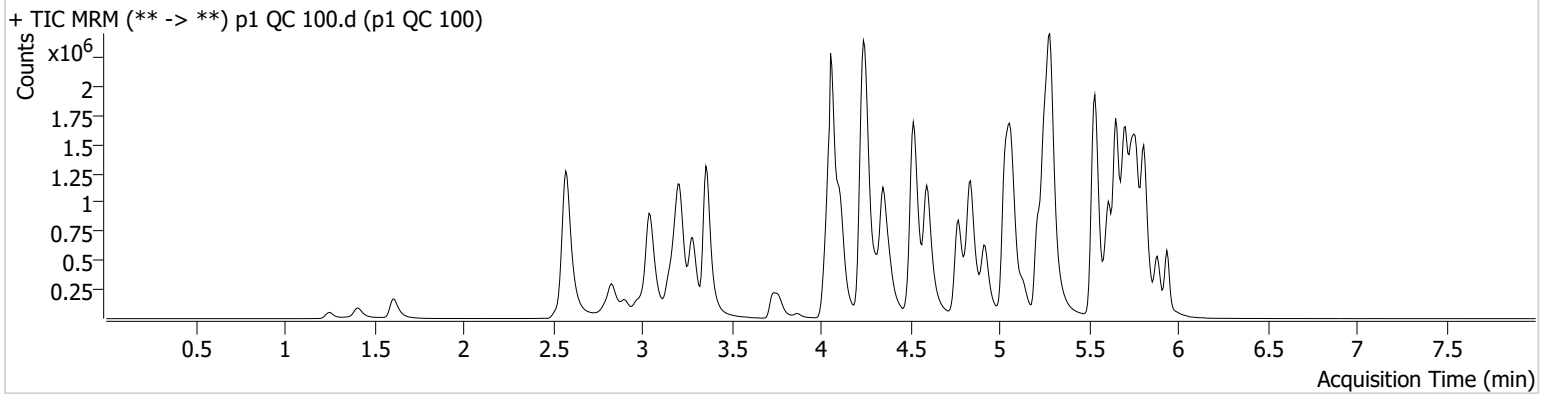
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** QC  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-B2  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 11:11:59 PM  
**Sample Info.**

**Data File** p1 QC 100.d  
**Sample** p1 QC 100  
**Operator** Tamara Salazar

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	350336	735.39	78.9	2908.75	151710	101.2325 ng/ml
Alprazolam	5.767	734408	670.34	118.7	1947.48	301326	106.6149 ng/ml
Amphetamine	3.043	2026989	3670.21	44.1	598.36	260657	103.3911 ng/ml
Benzoylcegonine	3.871	42781	3496.62	7.9	5835.45	15118	97.4095 ng/ml
Bupropion	4.772	1388048	150411.70	70.1	10502.04	420384	100.9383 ng/ml
Clonazepam	5.602	871326	1359.94	34.3	∞	113479	109.0105 ng/ml
Cyclobenzaprine	5.618	912025	15267.26	9.5	61098.50	403361	98.3987 ng/ml
Dextromethorphan	5.263	767297	618112.32	81.4	1926503.42	340331	102.0636 ng/ml
Diphenhydramine	5.291	2959059	2020718.47	27.9	20100.13	1414715	95.8268 ng/ml
Doxylamine	4.518	2624312	122523.49	98.0	27087.60	1179077	97.5902 ng/ml
Duloxetine	5.645	69266	2319.91	11.3	374.14	38083	102.8812 ng/ml
Fentanyl	5.075	90940	3028.84	80.0	7635.53	529946	9.5677 ng/ml
Fluoxetine	5.705	789058	286241.00	7.3	124.80	278216	96.2659 ng/ml
Hydromorphone	1.615	319677	677699.49	74.2	1003333.36	100571	101.1917 ng/ml
Ketamine	4.030	943574	3758.37	37.2	3752.82	375445	107.3146 ng/ml
Lamotrigine	4.267	87592	1626.36	85.7	776.48	1225080	105.6977 ng/ml
Methamphetamine	3.211	1841446	17108.31	39.8	6682.73	908132	108.8013 ng/ml
Metoprolol	4.321	259740	190752.72	106.1	6065.56	1069239	107.2568 ng/ml
Morphine	1.253	54627	478.77	30.1	321.11	9603	96.0589 ng/ml
Norfentanyl	4.071	219202	367250.30	37.0	659.35	867038	9.7178 ng/ml
Noroxycodone	2.903	283038	981.43	46.9	3035.36	90122	99.7478 ng/ml
Oxazepam	5.747	750771	6812.49	75.5	2326.82	405846	107.1920 ng/ml
Oxycodone	2.828	831596	694.04	27.7	4230.57	303536	102.7778 ng/ml
Oxymorphone	1.411	209071	∞	43.7	∞	68316	106.5303 ng/ml
Pseudoephedrine	2.582	2491246	1395.42	16.6	3294.02	1225080	97.5743 ng/ml
Quetiapine	5.517	1353978	14810.99	55.9	124619.40	175449	108.6186 ng/ml
Sertraline	5.774	187090	11773.57	99.9	21818.76	86930	98.2938 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

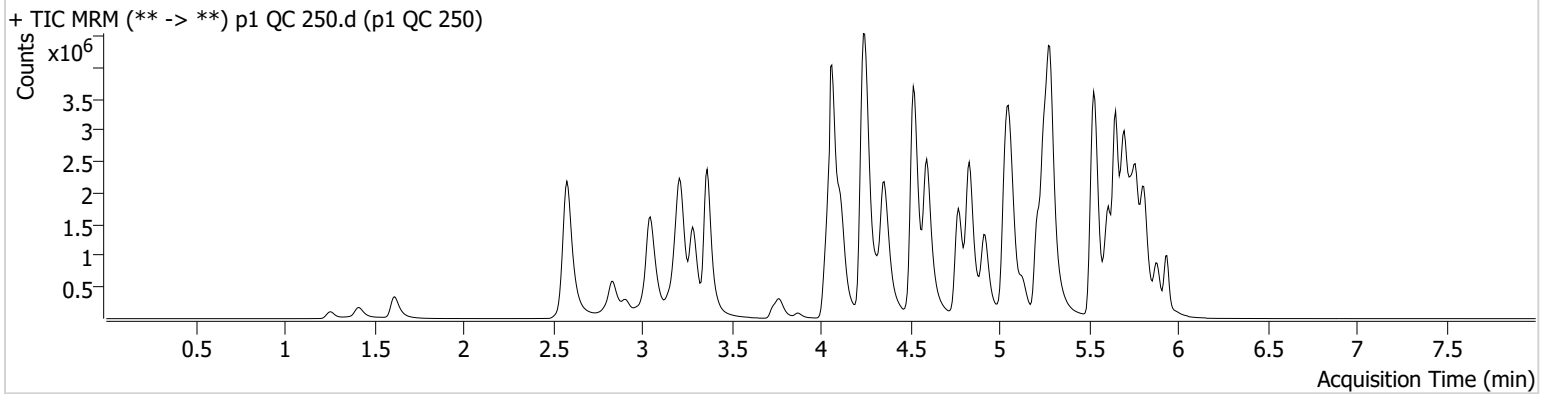
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** QC  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-C2  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 1:38:00 PM  
**Sample Info.**

**Data File** p1\_QC\_250.d  
**Sample** p1\_QC\_250  
**Operator** Tamara Salazar

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.252	608316	2790.81	80.5	1932.83	113190	235.4335 ng/ml
Alprazolam	5.760	1463084	887.54	116.5	883.13	235542	270.4604 ng/ml
Amphetamine	3.050	3770780	2630.88	43.8	5543.65	226902	221.1731 ng/ml
Benzoylcegonine	3.871	98190	265.92	8.3	21502.47	13711	245.9823 ng/ml
Bupropion	4.772	3072475	214856.89	70.5	1752.09	379179	247.4642 ng/ml
Clonazepam	5.595	1528629	65468.68	33.5	548239.99	82474	264.2234 ng/ml
Cyclobenzaprine	5.618	2009695	870.33	9.1	364.76	346457	251.4098 ng/ml
Dextromethorphan	5.263	1609725	125041.15	78.7	1051.46	288324	252.4845 ng/ml
Diphenhydramine	5.284	6420473	151047.36	28.4	15163.38	1184607	247.7062 ng/ml
Doxylamine	4.518	6229164	1471.56	95.6	111529.79	1070825	254.0021 ng/ml
Duloxetine	5.645	145824	7054.02	12.0	740.61	33156	248.6987 ng/ml
Fentanyl	5.075	198144	15498.39	81.8	118511.78	444859	24.6750 ng/ml
Fluoxetine	5.705	1660244	15005.08	7.2	74454.76	225099	250.1287 ng/ml
Hydromorphone	1.615	727778	13124.21	75.4	6510.44	94094	246.1190 ng/ml
Ketamine	4.030	2034453	232767.01	36.8	12806.57	336984	258.8567 ng/ml
Lamotrigine	4.274	171695	1129.23	90.3	209211.45	1021044	248.6851 ng/ml
Methamphetamine	3.218	4079478	78450.69	39.0	418.95	840998	261.2326 ng/ml
Metoprolol	4.321	559807	403649.56	104.6	4698.12	991345	250.4387 ng/ml
Morphine	1.261	123464	1920.22	30.5	2065.69	8322	250.7101 ng/ml
Norfentanyl	4.078	427318	734224.54	37.8	6416.47	664470	24.6351 ng/ml
Noroxycodone	2.910	582174	928.43	47.6	3691.57	76524	241.4106 ng/ml
Oxazepam	5.741	1054253	14648.44	74.0	6290.96	239464	255.6180 ng/ml
Oxycodone	2.835	1838793	1124.86	28.5	4069.44	274503	251.1935 ng/ml
Oxymorphone	1.411	450999	∞	46.2	814.36	65201	240.9040 ng/ml
Pseudoephedrine	2.582	5295806	163967.74	16.5	59519.95	1021044	247.7140 ng/ml
Quetiapine	5.510	2860419	39544.97	57.7	81950.80	156047	259.4076 ng/ml
Sertraline	5.774	395932	4165.65	96.7	715.74	70717	255.0732 ng/ml

TS



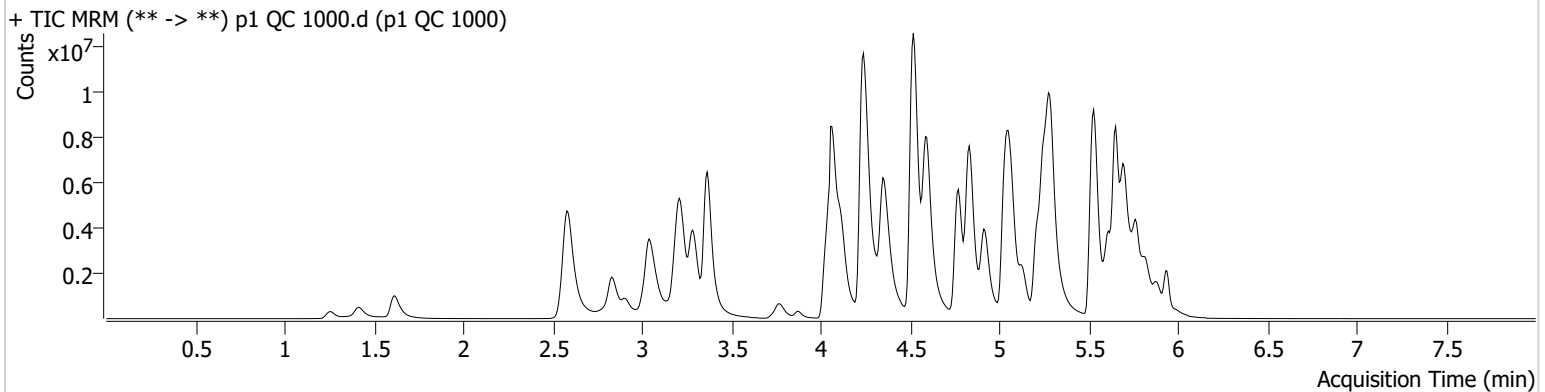
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 QC 1000.d  
**Type** QC **Sample** p1 QC 1000  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-D2 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 1:59:16 PM  
**Sample Info.**

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**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	1106751	2207.27	83.8	1667.94	64345	753.2287 ng/ml
Alprazolam	5.767	3415473	∞	111.8	∞	134694	1101.5871 ng/ml
Amphetamine	3.043	8668143	1988.73	43.2	1571.30	191314	603.3412 ng/ml
Benzoylcegonine	3.871	392700	238943.32	8.1	48785.38	13609	990.0752 ng/ml
Bupropion	4.772	10743382	626496.12	68.5	258517.40	330747	991.4978 ng/ml
Clonazepam	5.595	2369272	34649.10	34.2	1157352.28	38131	887.5787 ng/ml
Cyclobenzaprine	5.618	5588473	105797.44	8.3	687.50	225119	1073.7683 ng/ml
Dextromethorphan	5.256	3856187	313.15	77.1	295.77	171815	1014.4594 ng/ml
Diphenhydramine	5.291	17986826	528.83	28.5	97684.54	812372	1010.7420 ng/ml
Doxylamine	4.518	23595229	345725.03	93.7	537967.44	948682	1083.8488 ng/ml
Duloxetine	5.638	251609	3899.19	12.4	3493.94	14498	981.1822 ng/ml
Fentanyl	5.075	662818	482.27	77.1	33159.83	303183	120.7228 ng/ml
Fluoxetine	5.705	3220200	40788.11	7.3	109944.94	103223	1057.5268 ng/ml
Hydromorphone	1.615	2433756	18051405.64	75.9	13114881.1	77000	1005.5234 ng/ml
Ketamine	4.030	5659481	949188.55	35.5	47258.73	283160	858.7235 ng/ml
Lamotrigine	4.274	365655	822.11	83.6	338248.77	656892	823.3885 ng/ml
Methamphetamine	3.218	12431661	510046.98	37.7	121241.62	781094	858.6925 ng/ml
Metoprolol	4.321	1384556	1317570.02	106.2	257438.54	722055	852.4145 ng/ml
Morphine	1.261	394601	1362.21	30.4	334.91	7044	946.8800 ng/ml
Norfentanyl	4.078	842841	44405.22	38.8	5332.58	296235	108.8038 ng/ml
Noroxycodone	2.910	1705547	904.42	48.1	420.04	57037	948.4425 ng/ml
Oxazepam	5.741	1053549	624.62	75.5	356.84	67564	906.3135 ng/ml
Oxycodone	2.828	6342122	4310.75	28.3	2709.24	244316	973.2295 ng/ml
Oxymorphone	1.411	1470657	773.18	47.2	∞	55629	921.0083 ng/ml
Pseudoephedrine	2.589	15215431	1110.94	16.0	1881.29	656892	1103.6687 ng/ml
Quetiapine	5.510	8277465	134326.19	59.1	84801.09	134171	875.4886 ng/ml
Sertraline	5.774	738249	405647.69	94.5	17716.34	33220	1011.2755 ng/ml



TS



# AM #28 Multi-Drug Quant. Results

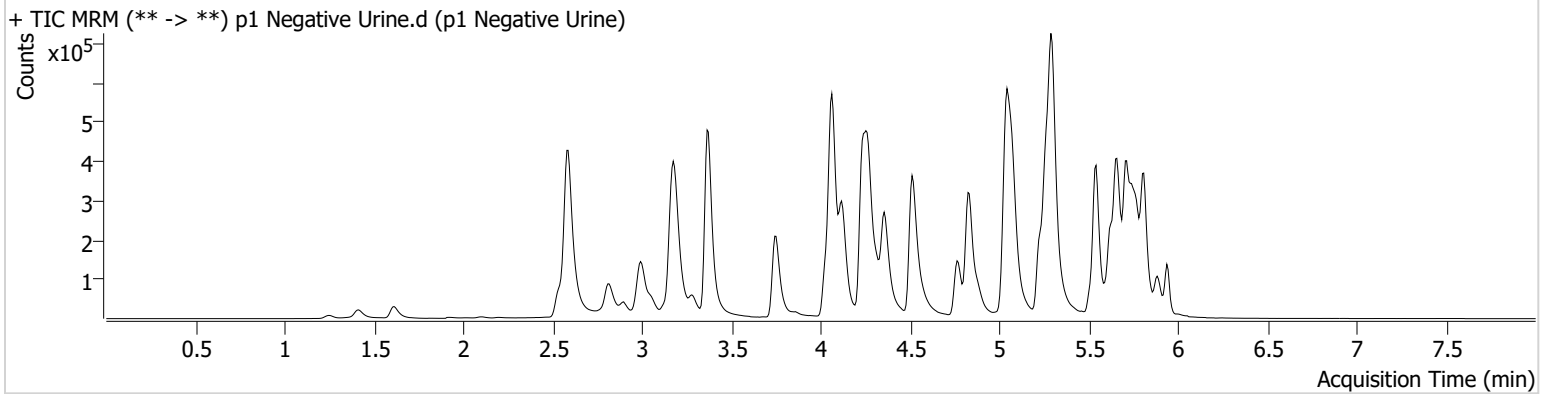
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** Sample  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-A5  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 9:04:29 PM  
**Sample Info.**

**Data File** p1 Negative Urine.d  
**Sample** p1 Negative Urine  
**Operator** Tamara Salazar  
**Comment**

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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Amphetamine	3.198 <b>High</b>	183084	4881.97	0.4 <b>Low</b>	10.99	285179	8.3559 ng/ml <32

TS



# AM #28 Multi-Drug Quant. Results

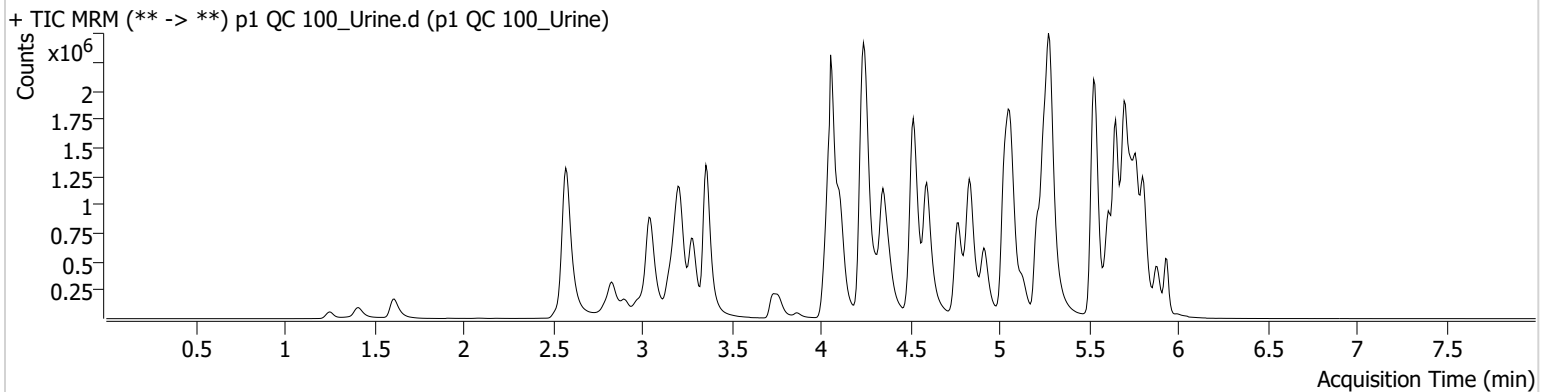
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** QC  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-E2  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 9:25:46 PM  
**Sample Info.**

**Data File** p1 QC 100\_Urine.d  
**Sample** p1 QC 100\_Urine  
**Operator** 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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	381551	2679.98	79.3	384.98	164485	101.6891 ng/ml
Alprazolam	5.760	658660	440.91	114.7	1601.95	269839	106.7746 ng/ml
Amphetamine	3.049	1866930	6320.22	46.6	322.49	262895	94.3995 ng/ml
Benzoylcegonine	3.871	47097	4836.53	8.4	158.70	17009	95.3210 ng/ml
Bupropion	4.772	1379563	28912.56	69.7	1096.65	423076	99.6851 ng/ml
Clonazepam	5.595	582278	906.10	34.2	1471.00	76200	108.4825 ng/ml
Cyclobenzaprine	5.618	1027432	23447.05	9.4	2935.71	460161	97.1753 ng/ml
Dextromethorphan	5.256	815087	21839.99	80.1	5526.08	376924	97.9018 ng/ml
Diphenhydramine	5.284	3037926	32226.93	28.5	26040.77	1460474	95.3005 ng/ml
Doxylamine	4.518	2736655	11163.19	96.4	87177.72	1217087	98.5829 ng/ml
Duloxetine	5.645	135631	1915.72	11.8	398.40	75980	100.9749 ng/ml
Fentanyl	5.075	106473	3880.75	80.5	710.78	610290	9.7255 ng/ml
Fluoxetine	5.705	1391981	18649.95	7.2	4288.73	483011	97.8164 ng/ml
Hydromorphone	1.615	328333	13666.44	75.6	1219686.03	107314	97.4041 ng/ml
Ketamine	4.030	958695	12656.51	37.4	507.68	389300	105.1386 ng/ml
Lamotrigine	4.267	87684	1120.05	87.1	2473.30	1286139	100.7815 ng/ml
Methamphetamine	3.211	1829495	1324.30	39.9	616.99	916834	107.0582 ng/ml
Metoprolol	4.314	257951	89440.14	106.8	3577.46	1074716	105.9652 ng/ml
Morphine	1.253	57912	1416.90	30.1	1070.97	10336	94.6107 ng/ml
Norfentanyl	4.071	212784	769.24	37.3	∞	847861	9.6470 ng/ml
Noroxycodone	2.903	285952	4045.40	48.2	831.68	93534	97.1022 ng/ml
Oxazepam	5.741	556363	3155.61	71.2	796.70	314440	102.5102 ng/ml
Oxycodone	2.828	880162	2219.89	28.2	2332.52	325566	101.4203 ng/ml
Oxymorphone	1.411	220660	612.69	45.3	∞	76513	100.3841 ng/ml
Pseudoephedrine	2.582	2566168	1269.29	16.7	258.70	1286139	95.7512 ng/ml
Quetiapine	5.517	1325169	34943.89	56.5	568.05	174217	107.0444 ng/ml
Sertraline	5.774	387107	13739.42	94.6	64569.09	172971	102.1966 ng/ml

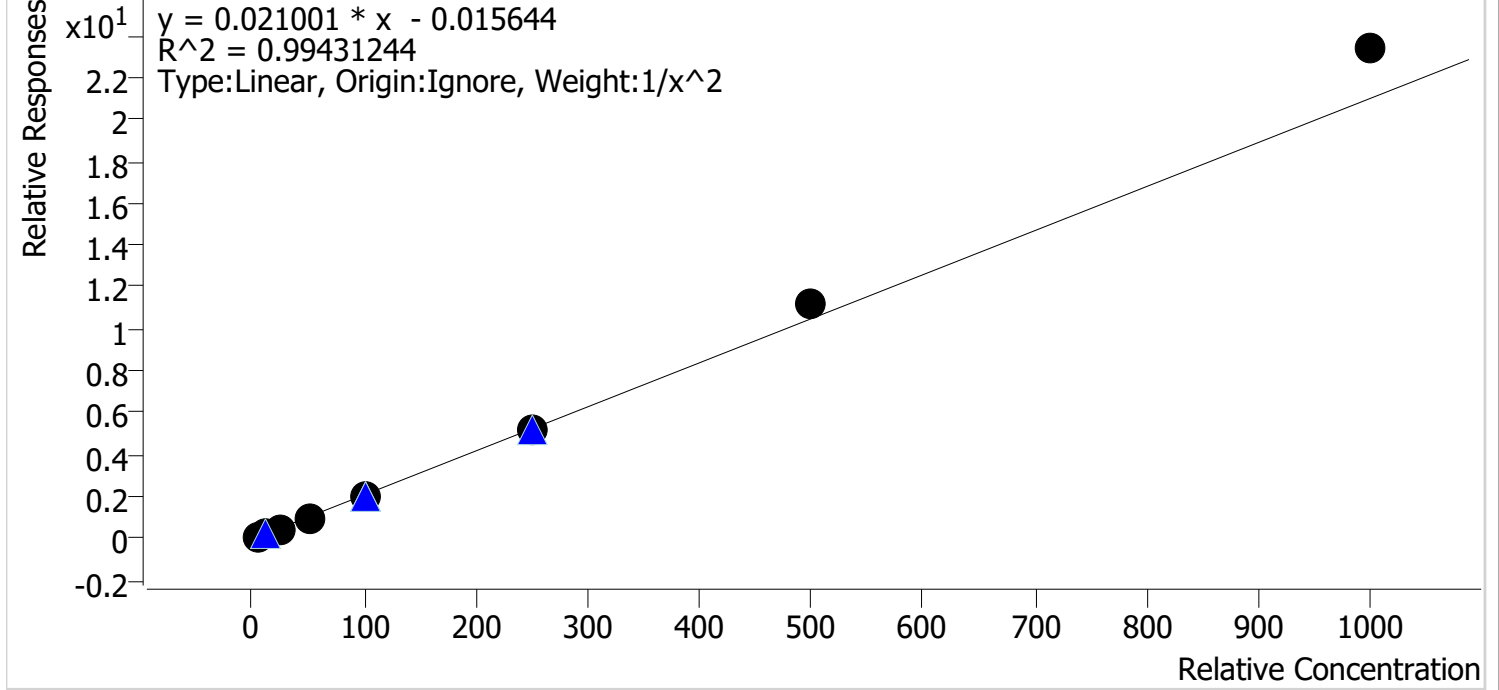
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Pseudoephedrine **Internal Standard** Pseudoephedrine-D3

Pseudoephedrine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



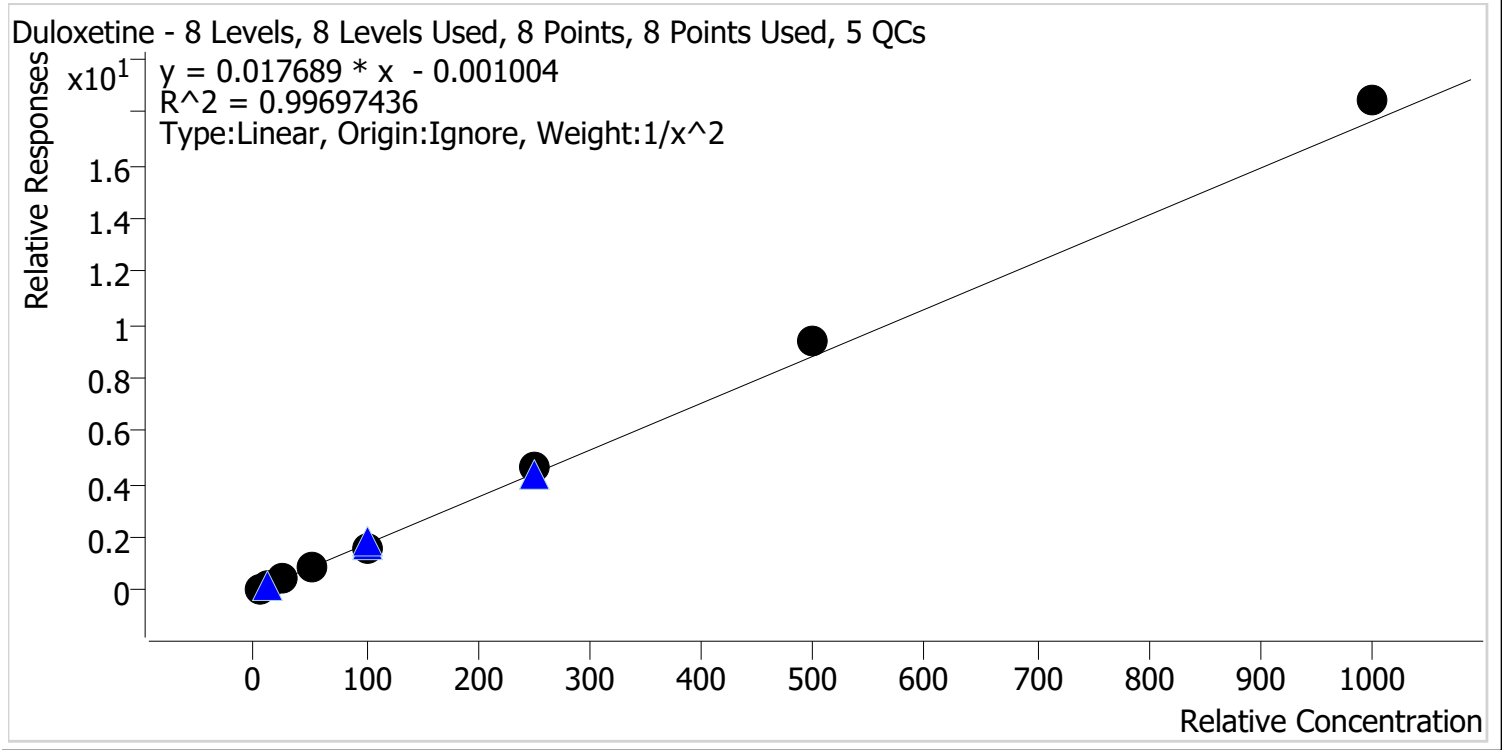
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.9
p1 Cal 2-10ng	2	✓	10.0	9.6	96.3
p1 Cal 3 -25ng	3	✓	25.0	23.5	93.9
p1 Cal 4-50ng	4	✓	50.0	46.4	92.7
p1 Cal 5-100ng	5	✓	100.0	95.6	95.6
p1 Cal 6-250ng	6	✓	250.0	250.5	100.2
p1 Cal 7-500ng	7	✓	500.0	530.0	106.0
p1 Cal 8-1000ng	8	✓	1000.0	1113.2	111.3

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Duloxetine **Internal Standard** Duloxetine-D3



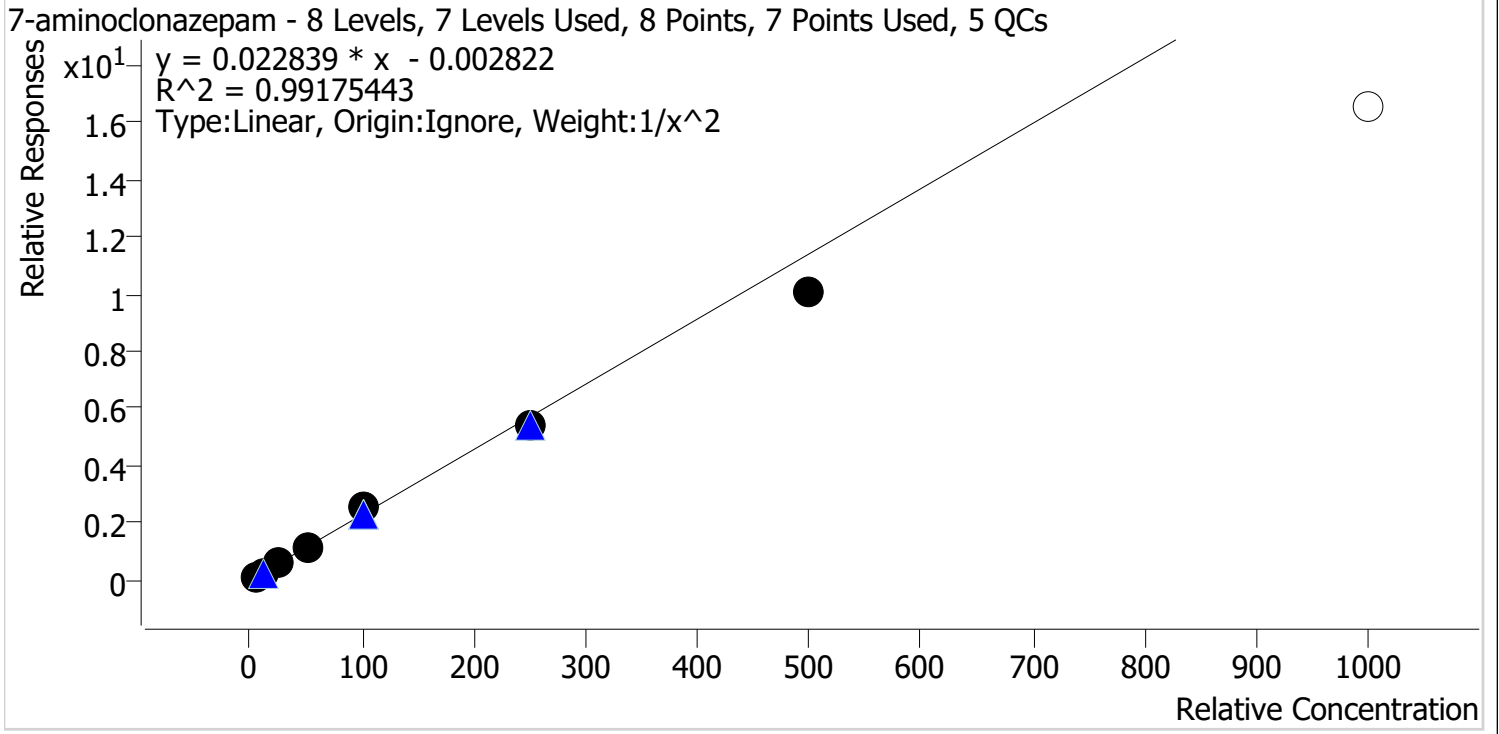
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.2
p1 Cal 2-10ng	2	✓	10.0	9.6	96.3
p1 Cal 3 -25ng	3	✓	25.0	24.0	96.2
p1 Cal 4-50ng	4	✓	50.0	47.8	95.6
p1 Cal 5-100ng	5	✓	100.0	94.3	94.3
p1 Cal 6-250ng	6	✓	250.0	260.3	104.1
p1 Cal 7-500ng	7	✓	500.0	529.4	105.9
p1 Cal 8-1000ng	8	✓	1000.0	1043.8	104.4

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.4
p1 Cal 2-10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.1
p1 Cal 4-50ng	4	✓	50.0	50.3	100.7
p1 Cal 5-100ng	5	✓	100.0	111.9	111.9
p1 Cal 6-250ng	6	✓	250.0	236.8	94.7
p1 Cal 7-500ng	7	✓	500.0	440.9	88.2
p1 Cal 8-1000ng	8	✗	1000.0	728.5	72.9

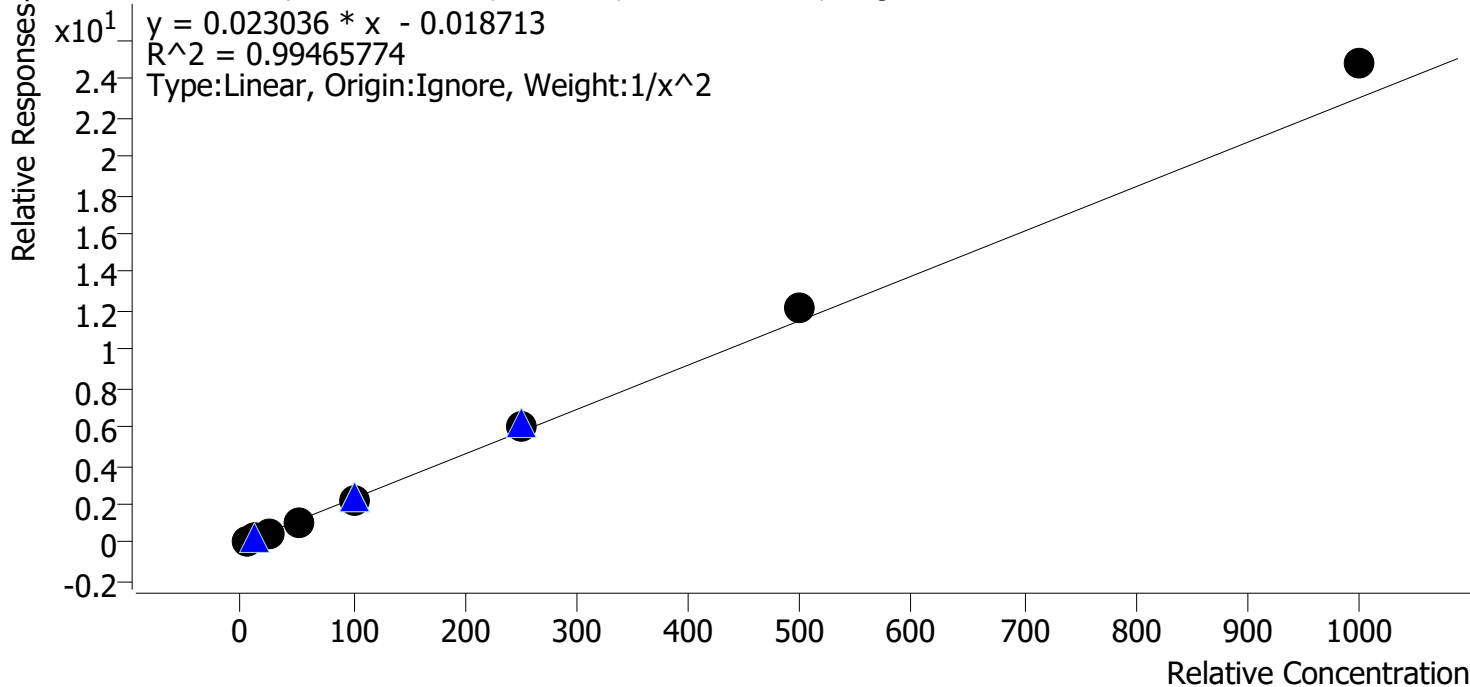
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



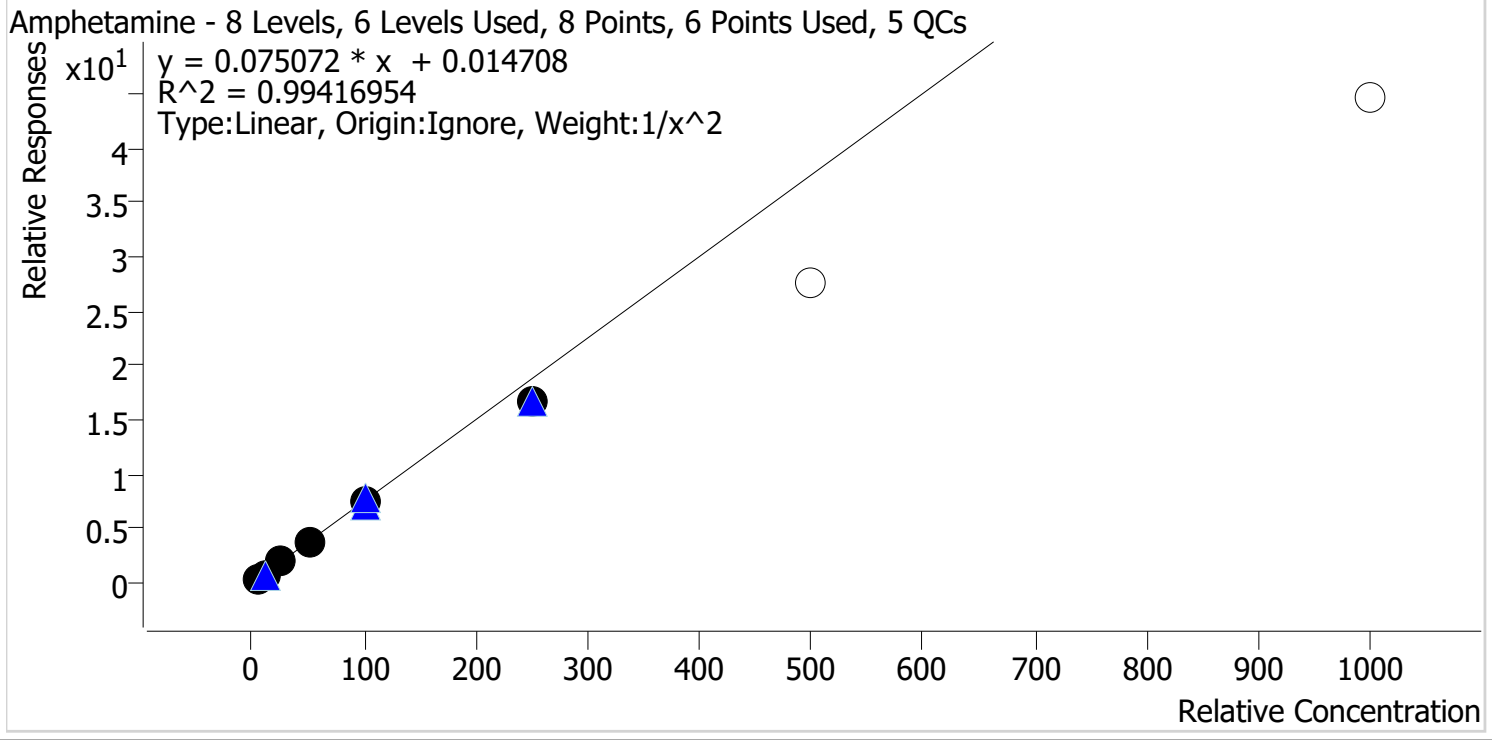
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.8
p1 Cal 2-10ng	2	✓	10.0	9.5	94.5
p1 Cal 3 -25ng	3	✓	25.0	23.2	92.8
p1 Cal 4-50ng	4	✓	50.0	46.5	93.1
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	262.2	104.9
p1 Cal 7-500ng	7	✓	500.0	530.1	106.0
p1 Cal 8-1000ng	8	✓	1000.0	1075.4	107.5

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11



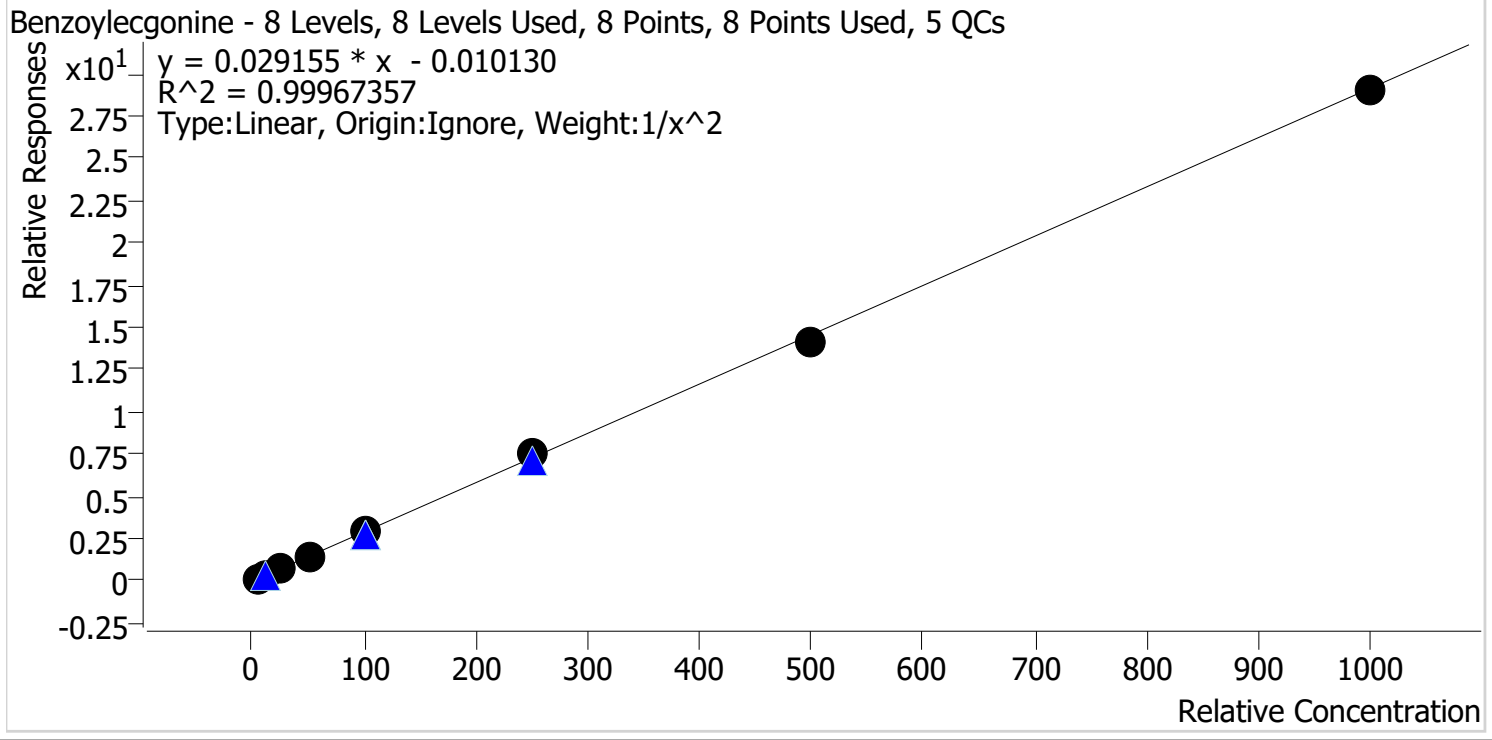
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.3
p1 Cal 2-10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	26.3	105.3
p1 Cal 4-50ng	4	✓	50.0	51.3	102.5
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	222.9	89.2
p1 Cal 7-500ng	7	x	500.0	367.0	73.4
p1 Cal 8-1000ng	8	x	1000.0	593.9	59.4

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Benzoyllecgonine **Internal Standard** Benzoyllecgonine-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.4
p1 Cal 2-10ng	2	✓	10.0	10.1	101.2
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	256.1	102.4
p1 Cal 7-500ng	7	✓	500.0	485.6	97.1
p1 Cal 8-1000ng	8	✓	1000.0	995.4	99.5

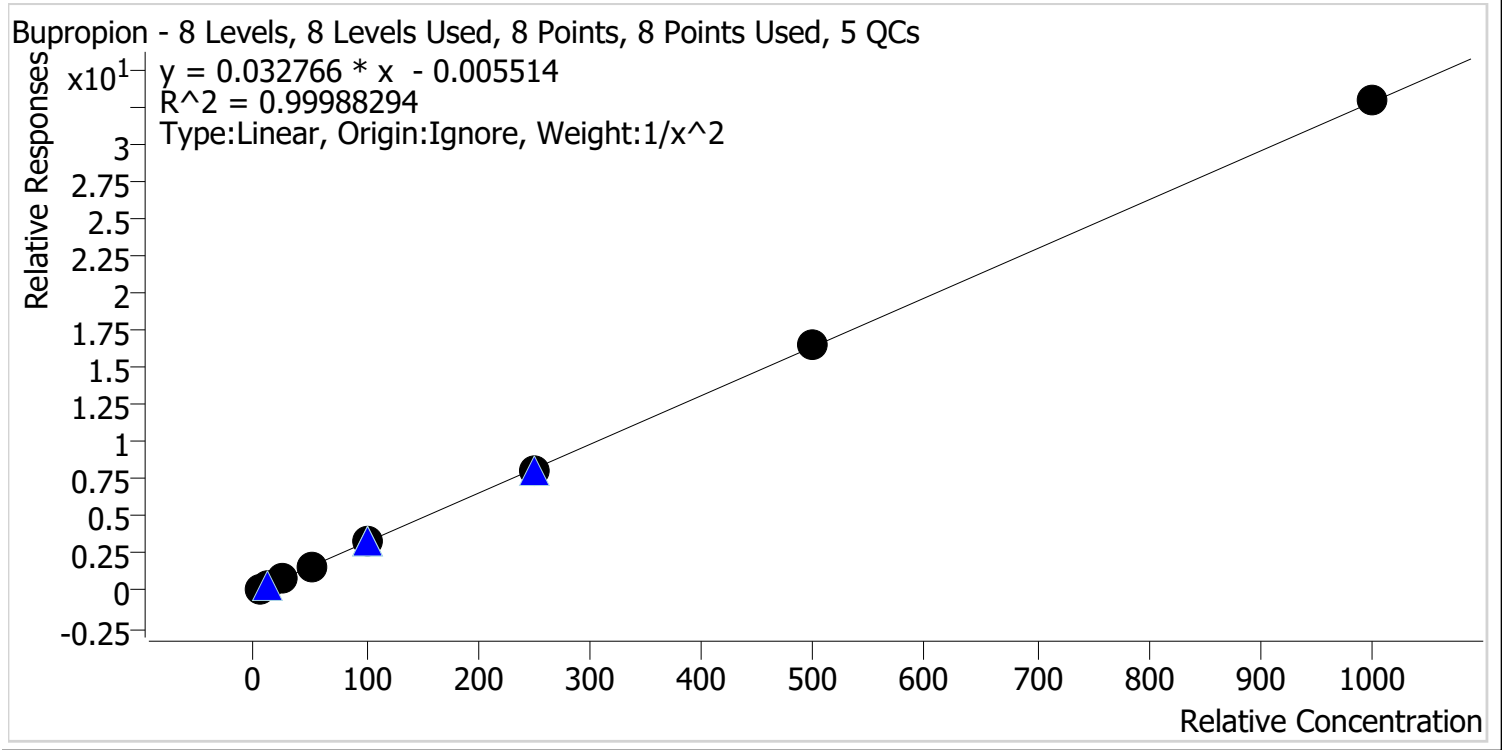


TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



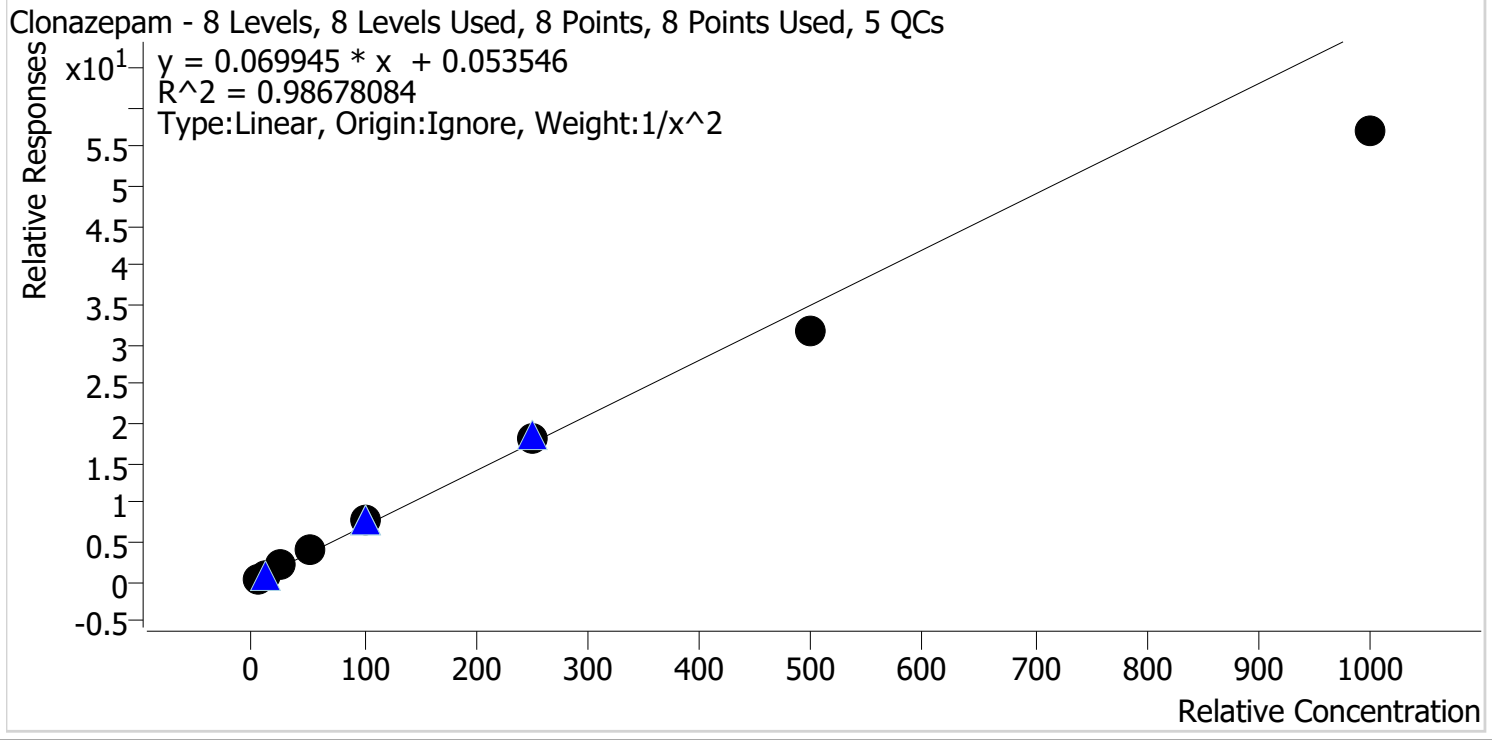
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.7
p1 Cal 2-10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	100.6	100.6
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	507.8	101.6
p1 Cal 8-1000ng	8	✓	1000.0	1003.2	100.3

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4



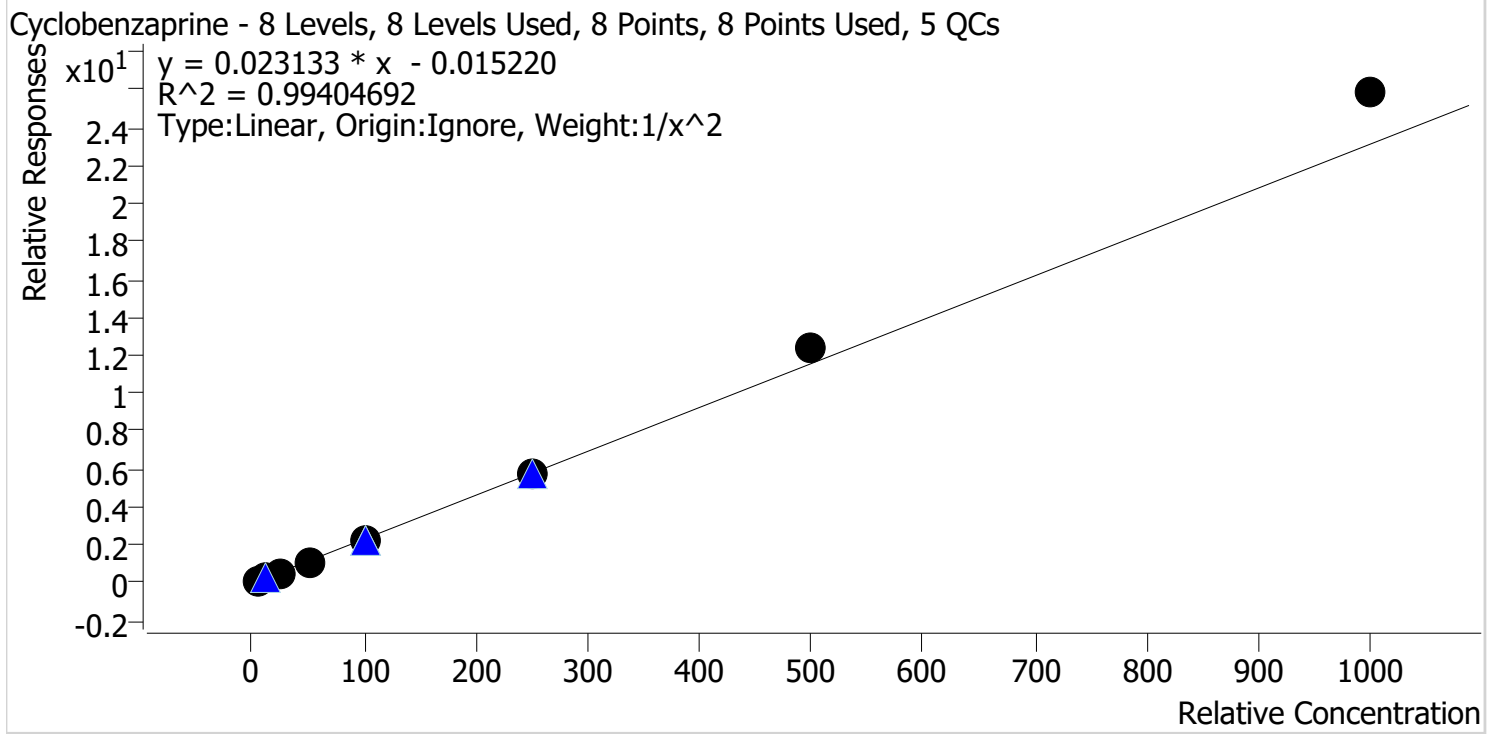
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.4
p1 Cal 2-10ng	2	✓	10.0	10.3	103.4
p1 Cal 3 -25ng	3	✓	25.0	27.2	108.7
p1 Cal 4-50ng	4	✓	50.0	54.1	108.1
p1 Cal 5-100ng	5	✓	100.0	108.9	108.9
p1 Cal 6-250ng	6	✓	250.0	259.3	103.7
p1 Cal 7-500ng	7	✓	500.0	451.1	90.2
p1 Cal 8-1000ng	8	✓	1000.0	814.9	81.5

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.9
p1 Cal 2-10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.5
p1 Cal 4-50ng	4	✓	50.0	46.0	92.1
p1 Cal 5-100ng	5	✓	100.0	93.4	93.4
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	533.6	106.7
p1 Cal 8-1000ng	8	✓	1000.0	1117.6	111.8

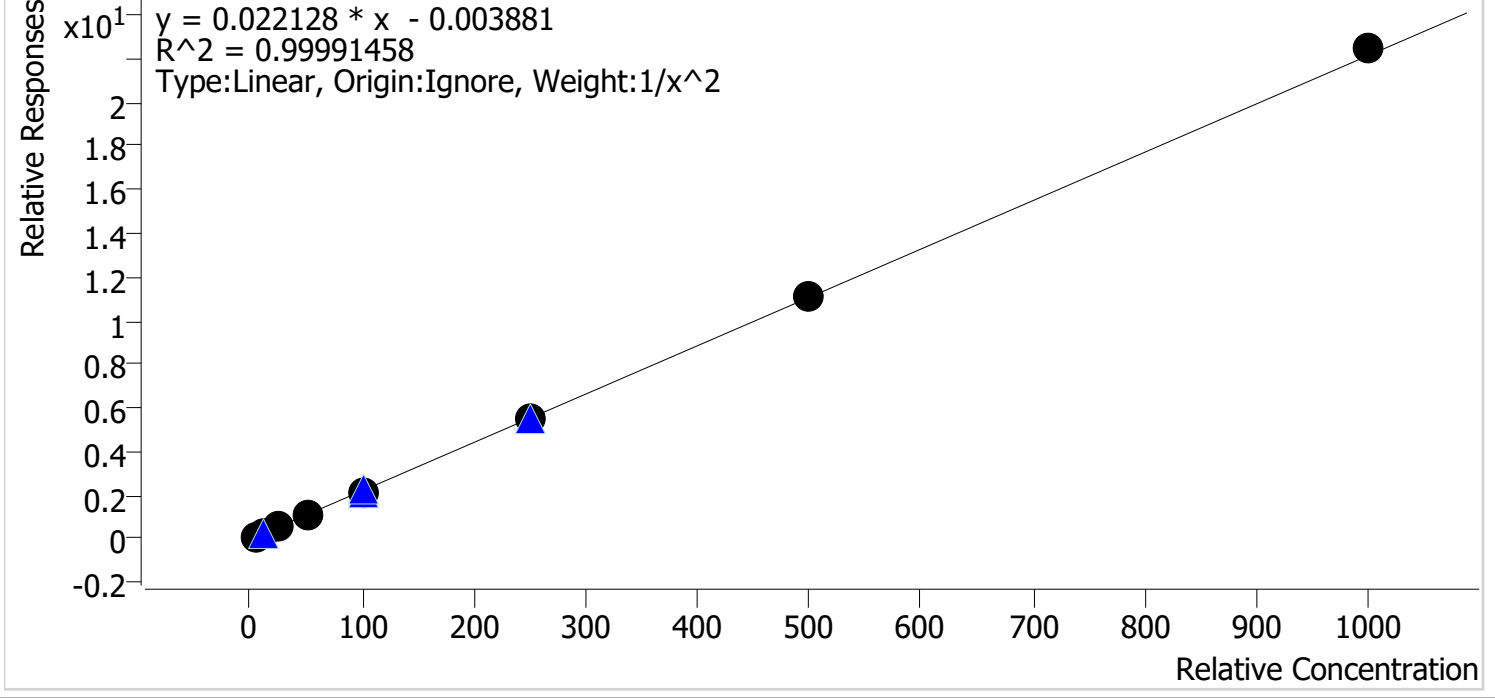
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

Dextromethorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2-10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	49.8	99.5
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	248.7	99.5
p1 Cal 7-500ng	7	✓	500.0	505.4	101.1
p1 Cal 8-1000ng	8	✓	1000.0	1012.3	101.2

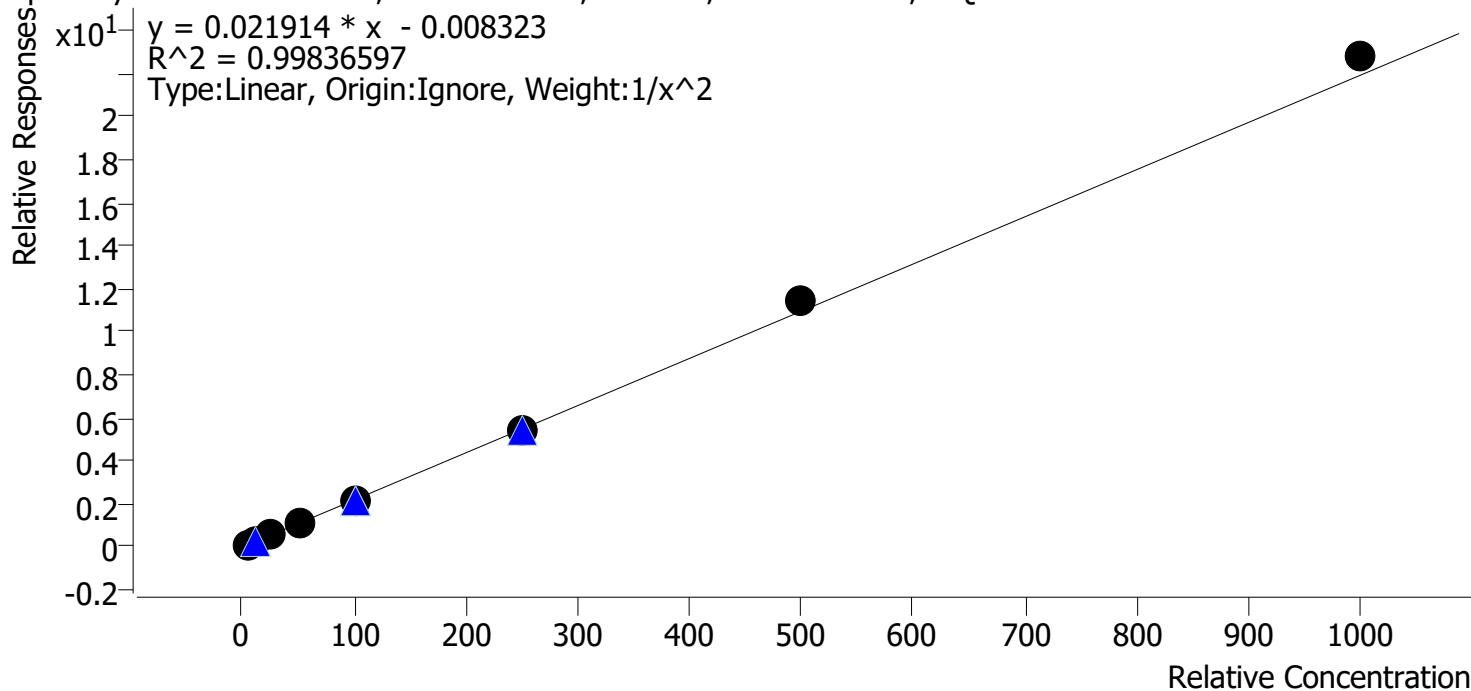
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



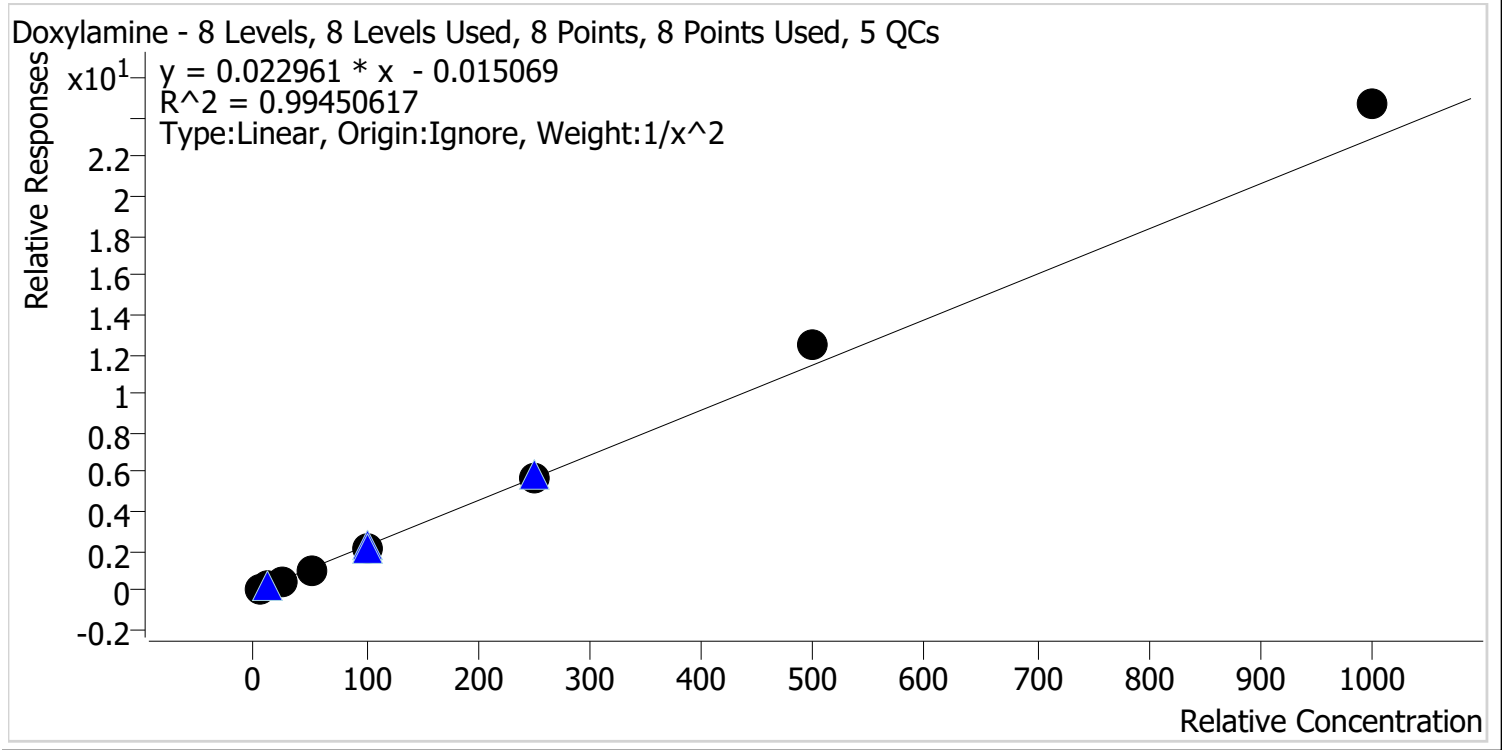
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.9
p1 Cal 2-10ng	2	✓	10.0	9.6	96.0
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	48.3	96.5
p1 Cal 5-100ng	5	✓	100.0	98.5	98.5
p1 Cal 6-250ng	6	✓	250.0	249.4	99.7
p1 Cal 7-500ng	7	✓	500.0	525.0	105.0
p1 Cal 8-1000ng	8	✓	1000.0	1039.6	104.0

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.5
p1 Cal 2-10ng	2	✓	10.0	9.5	95.0
p1 Cal 3 -25ng	3	✓	25.0	23.4	93.8
p1 Cal 4-50ng	4	✓	50.0	46.6	93.2
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	250.3	100.1
p1 Cal 7-500ng	7	✓	500.0	545.9	109.2
p1 Cal 8-1000ng	8	✓	1000.0	1079.8	108.0

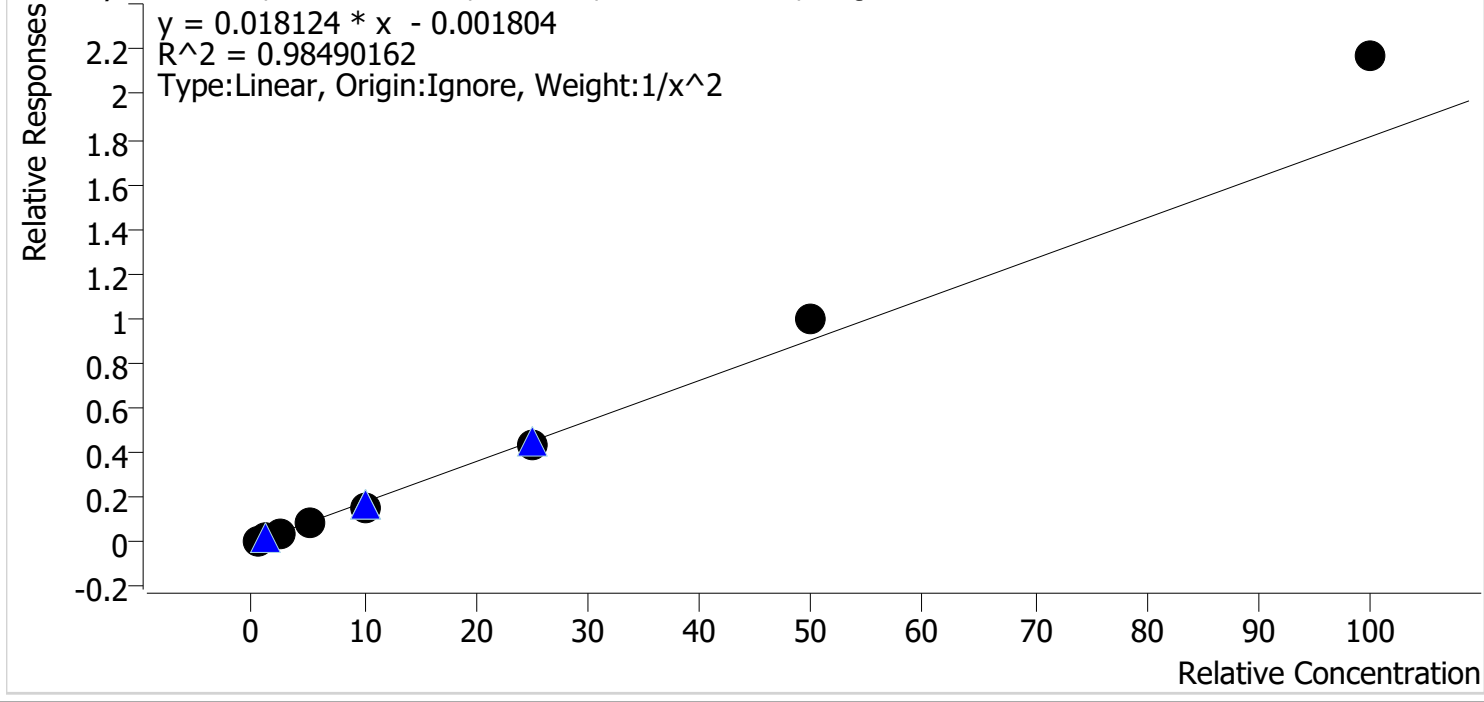
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



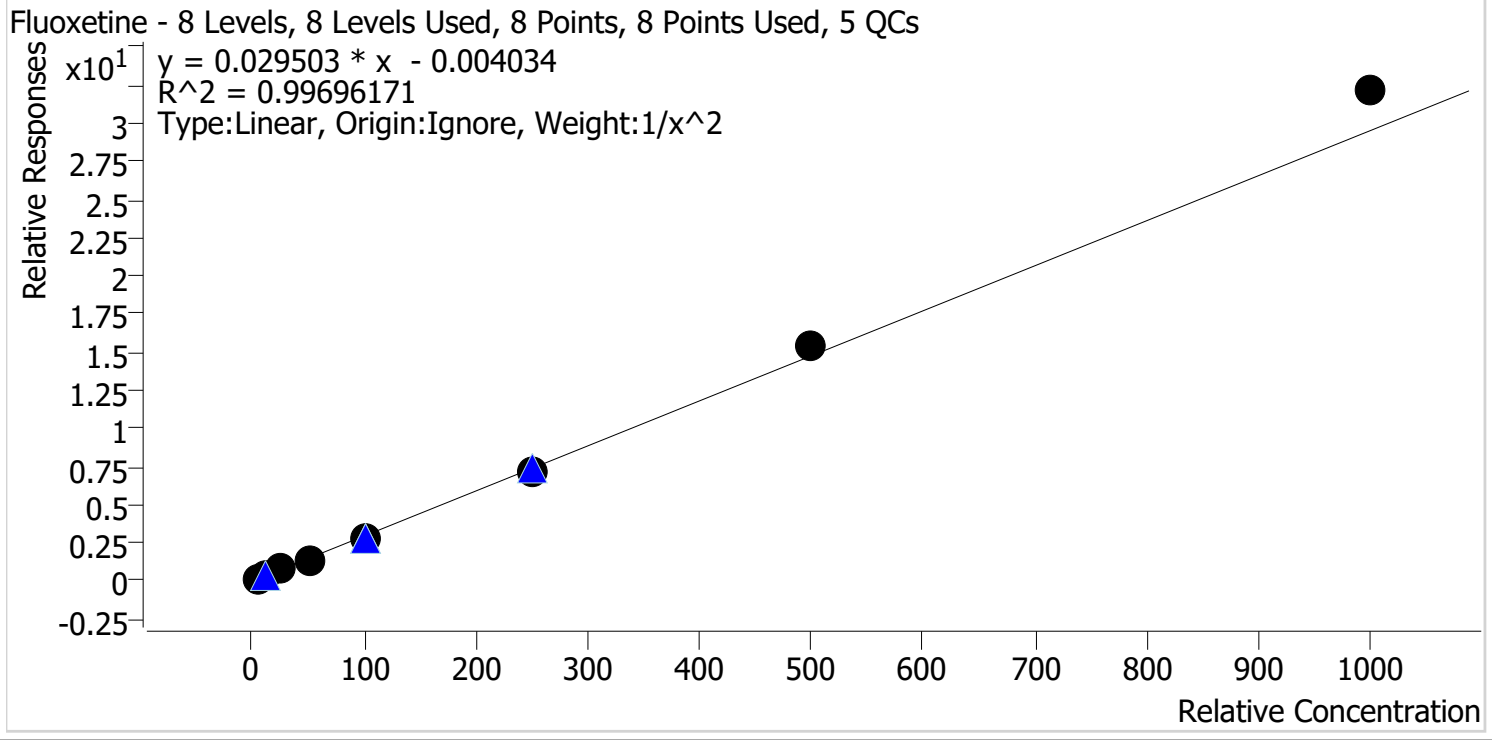
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.7
p1 Cal 2-10ng	2	✓	1.0	1.0	97.0
p1 Cal 3 -25ng	3	✓	2.5	2.3	90.6
p1 Cal 4-50ng	4	✓	5.0	4.5	90.6
p1 Cal 5-100ng	5	✓	10.0	9.0	89.5
p1 Cal 6-250ng	6	✓	25.0	24.5	97.8
p1 Cal 7-500ng	7	✓	50.0	55.0	110.1
p1 Cal 8-1000ng	8	✓	100.0	119.6	119.6

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.0
p1 Cal 2-10ng	2	✓	10.0	9.8	98.1
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.2
p1 Cal 4-50ng	4	✓	50.0	47.6	95.1
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	241.8	96.7
p1 Cal 7-500ng	7	✓	500.0	523.7	104.7
p1 Cal 8-1000ng	8	✓	1000.0	1089.0	108.9

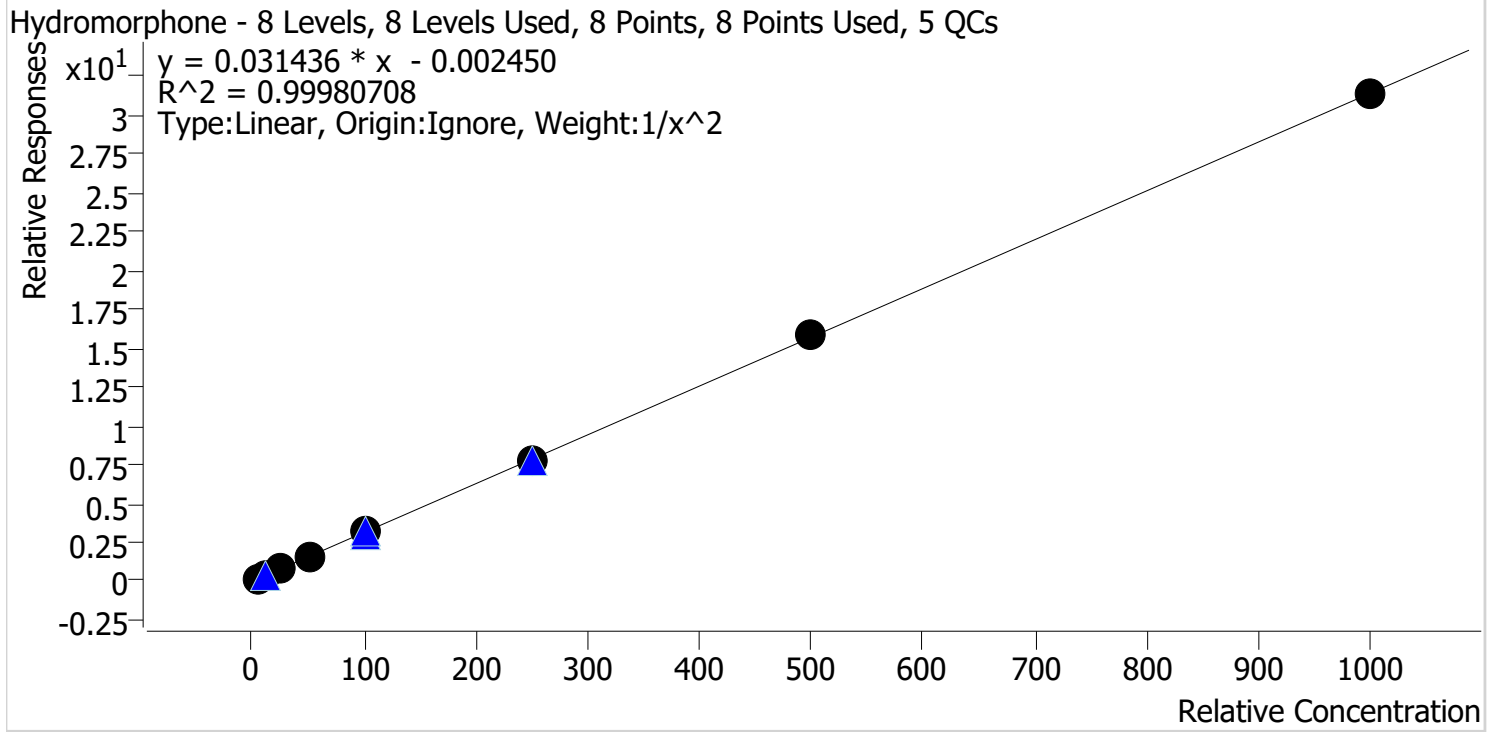


TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6



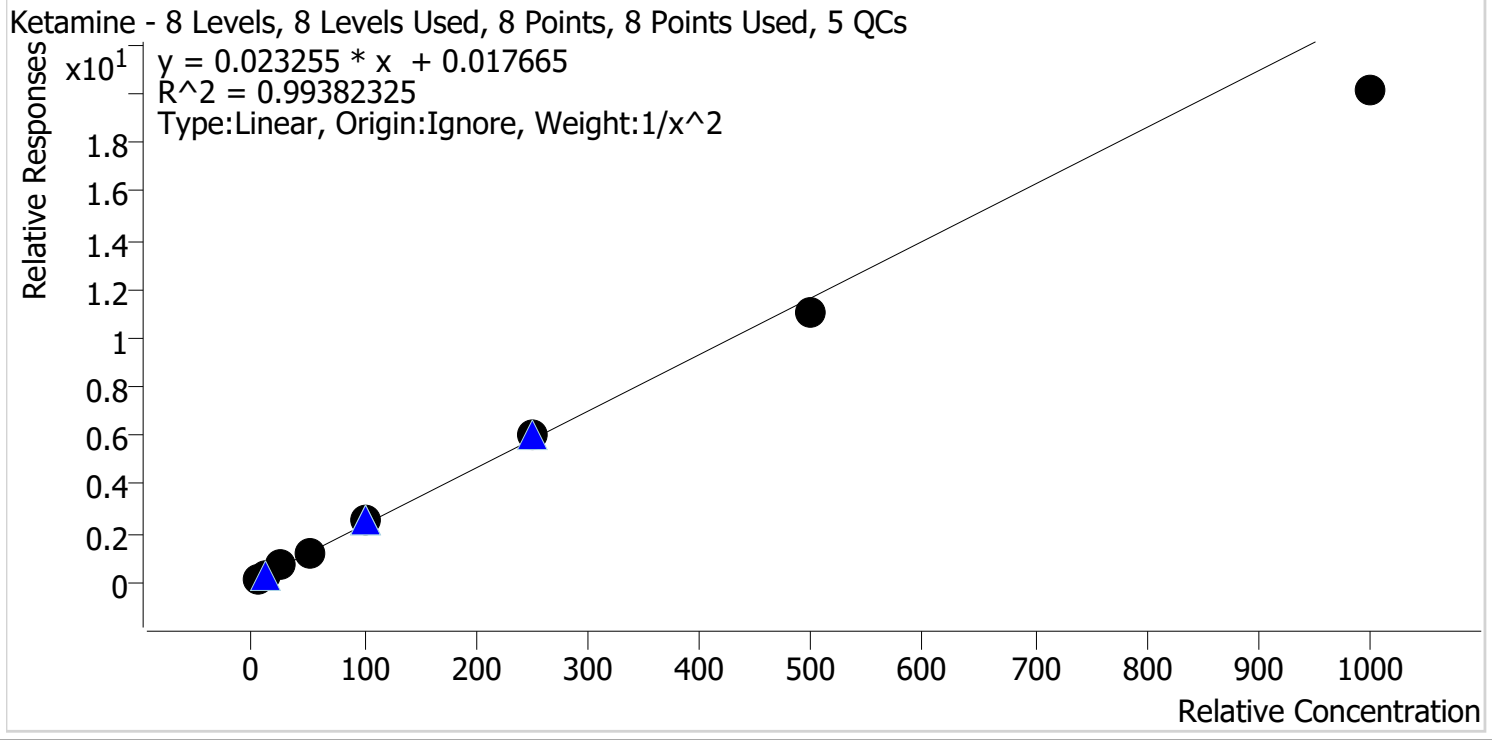
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.3
p1 Cal 2-10ng	2	✓	10.0	9.8	97.7
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.1
p1 Cal 4-50ng	4	✓	50.0	49.8	99.7
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
p1 Cal 7-500ng	7	✓	500.0	506.1	101.2
p1 Cal 8-1000ng	8	✓	1000.0	1002.2	100.2

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Ketamine **Internal Standard** Ketamine-D4



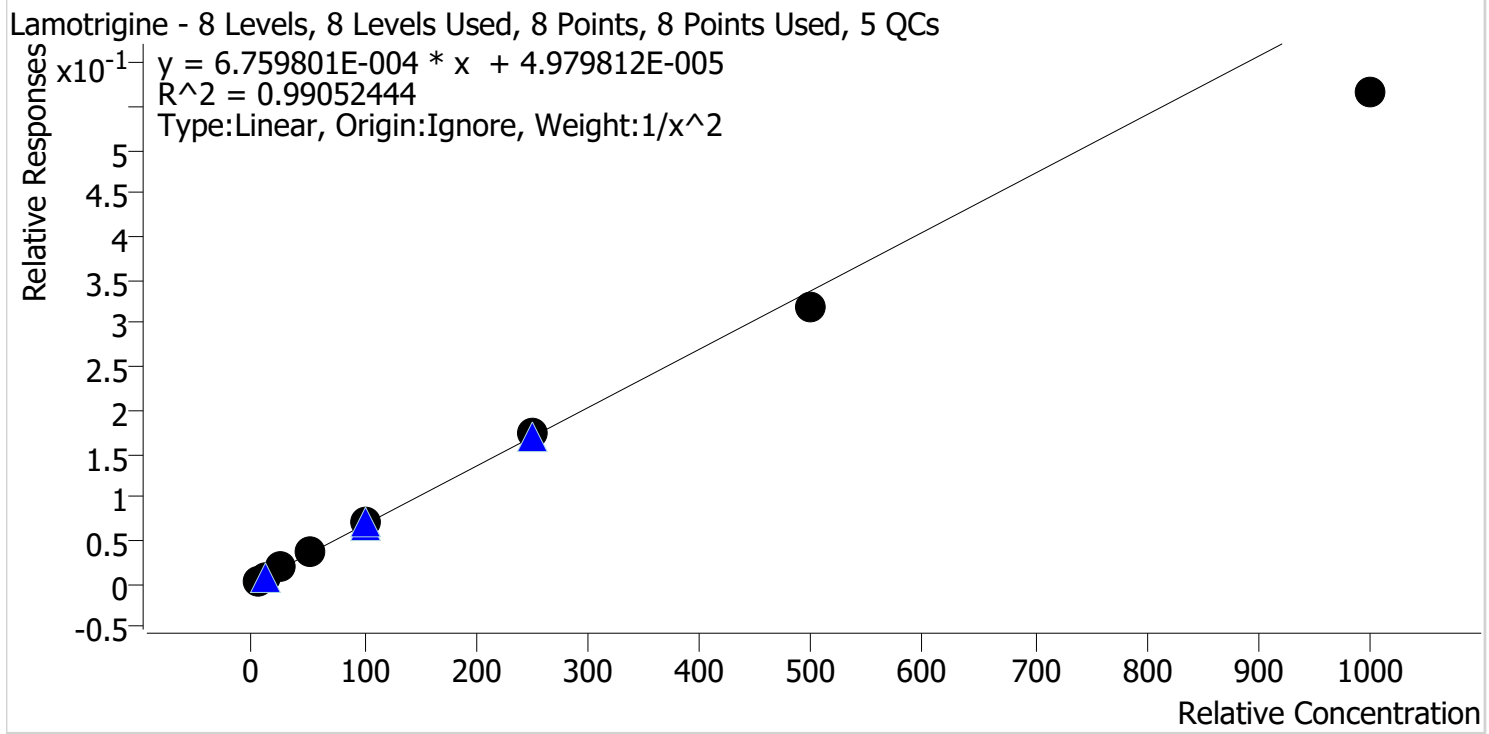
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2-10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	26.7	106.9
p1 Cal 4-50ng	4	✓	50.0	52.8	105.5
p1 Cal 5-100ng	5	✓	100.0	106.1	106.1
p1 Cal 6-250ng	6	✓	250.0	256.0	102.4
p1 Cal 7-500ng	7	✓	500.0	477.1	95.4
p1 Cal 8-1000ng	8	✓	1000.0	865.1	86.5

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Lamotrigine **Internal Standard** Pseudoephedrine-D3



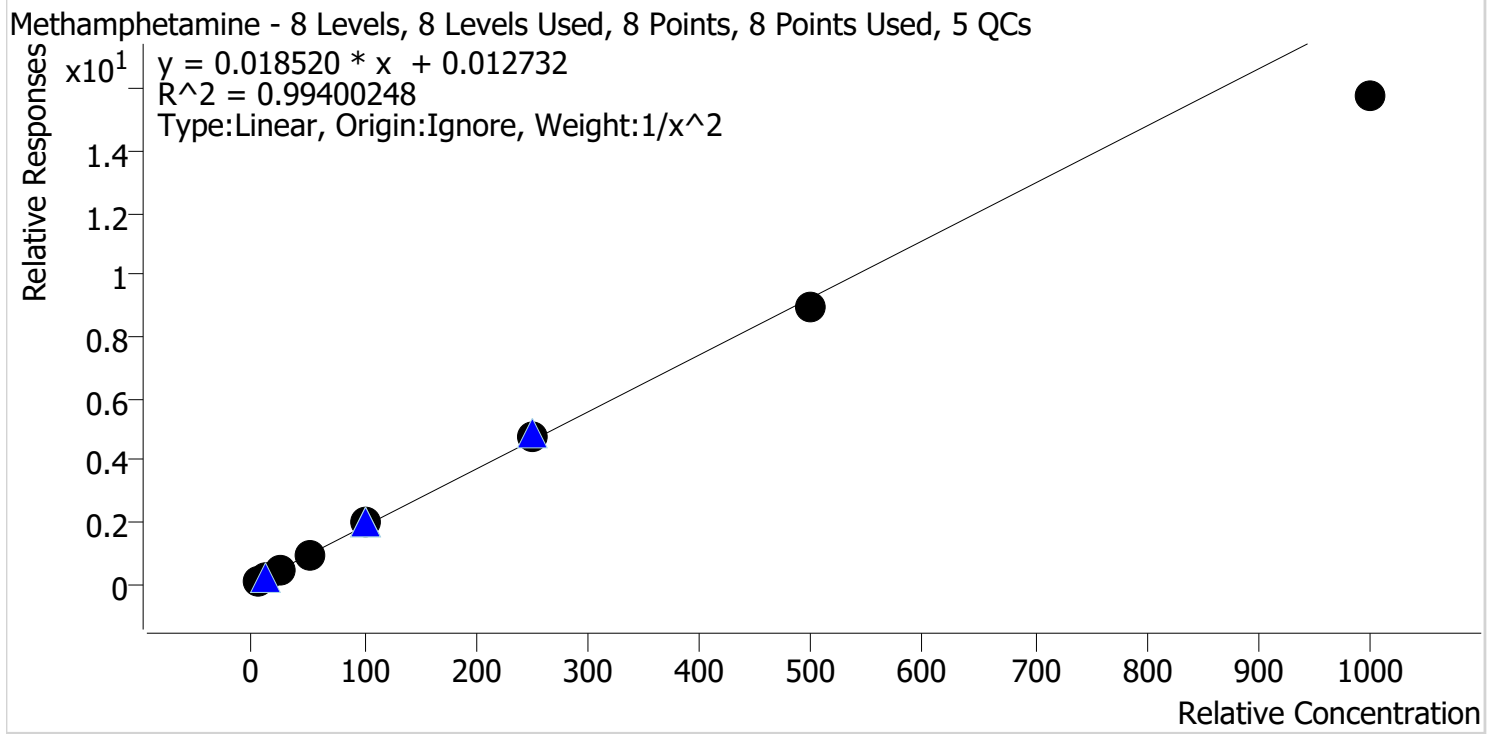
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.5
p1 Cal 2-10ng	2	✓	10.0	10.6	105.6
p1 Cal 3 -25ng	3	✓	25.0	27.6	110.6
p1 Cal 4-50ng	4	✓	50.0	52.0	104.0
p1 Cal 5-100ng	5	✓	100.0	104.8	104.8
p1 Cal 6-250ng	6	✓	250.0	254.8	101.9
p1 Cal 7-500ng	7	✓	500.0	474.1	94.8
p1 Cal 8-1000ng	8	✓	1000.0	838.0	83.8

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11



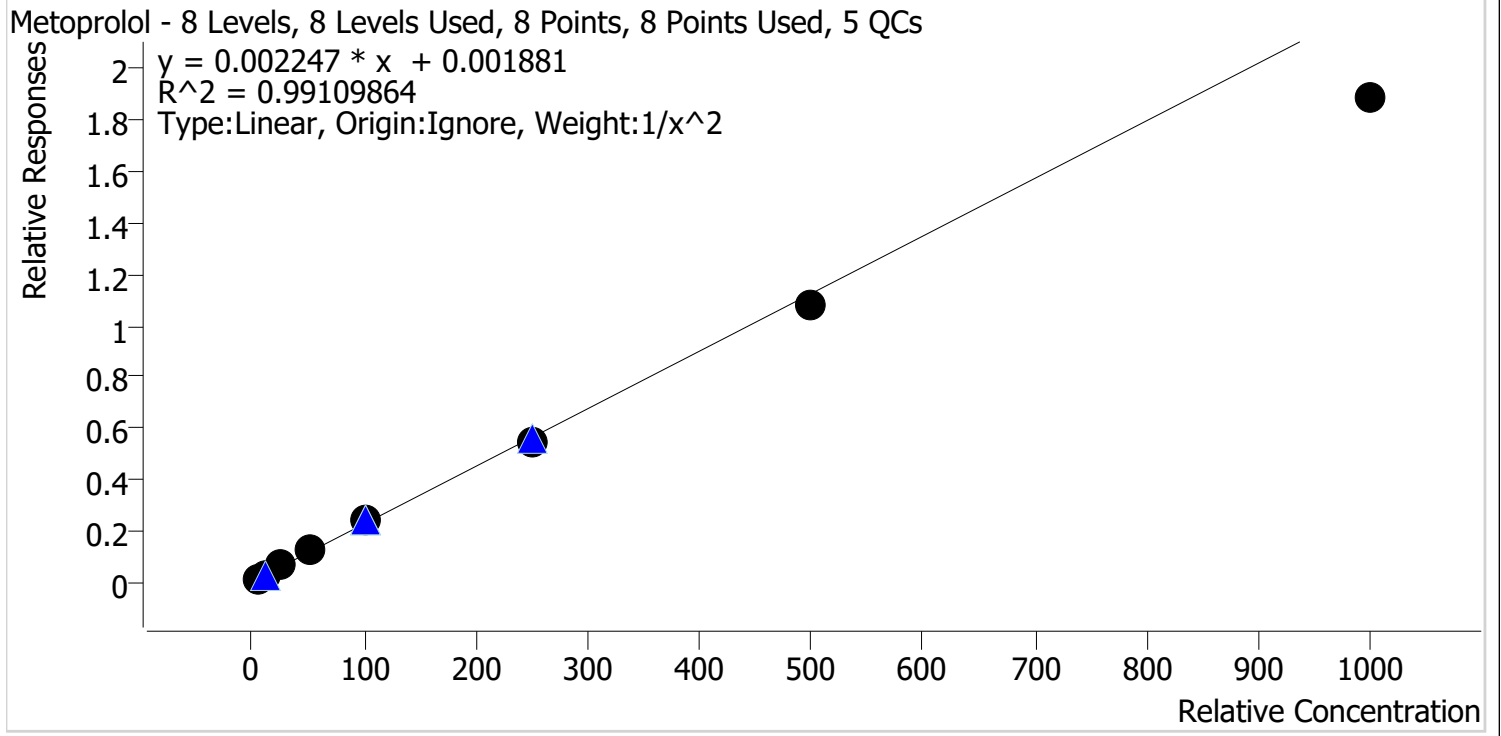
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.4
p1 Cal 2-10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.9
p1 Cal 4-50ng	4	✓	50.0	52.5	104.9
p1 Cal 5-100ng	5	✓	100.0	106.4	106.4
p1 Cal 6-250ng	6	✓	250.0	257.9	103.1
p1 Cal 7-500ng	7	✓	500.0	484.2	96.8
p1 Cal 8-1000ng	8	✓	1000.0	856.5	85.6

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3



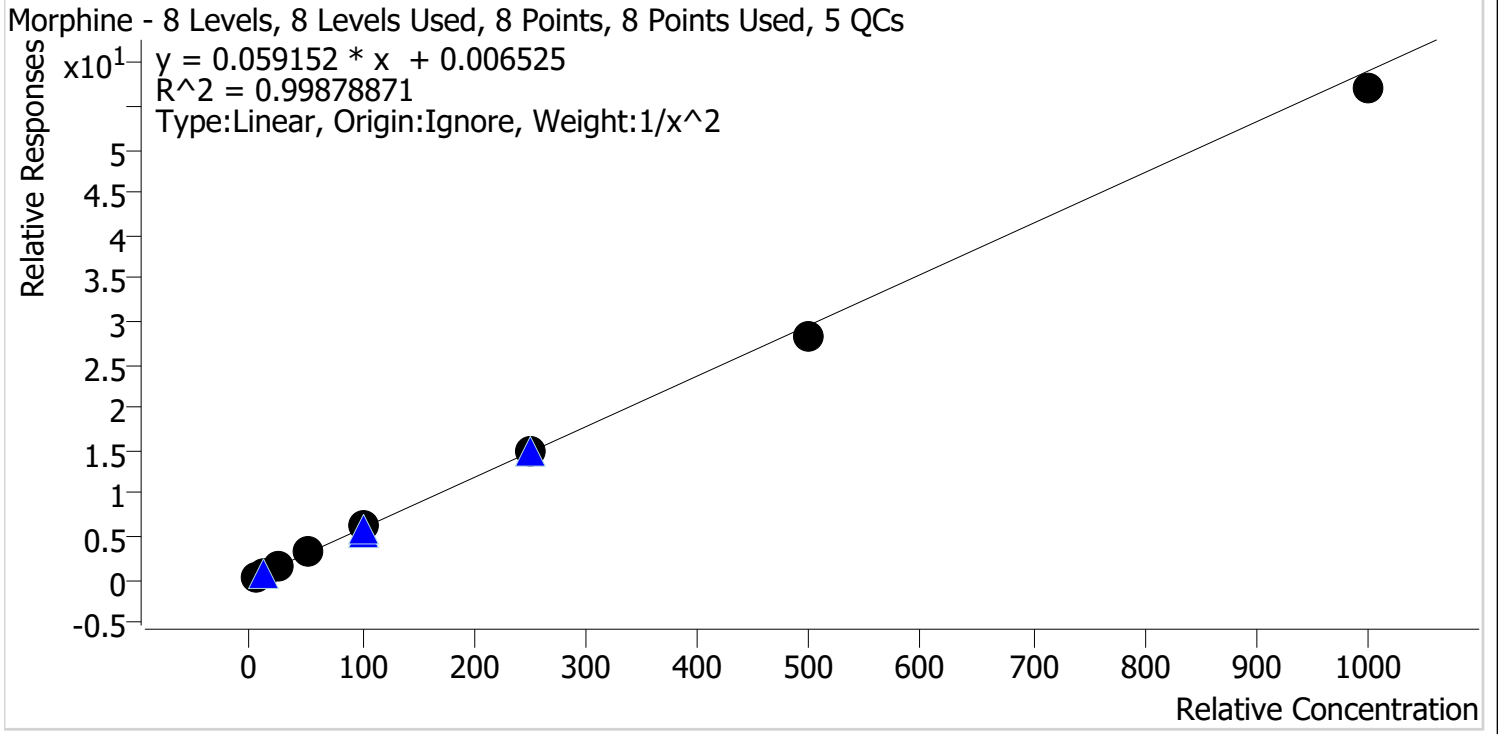
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.0
p1 Cal 2-10ng	2	✓	10.0	10.3	103.2
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.3
p1 Cal 4-50ng	4	✓	50.0	54.9	109.8
p1 Cal 5-100ng	5	✓	100.0	106.7	106.7
p1 Cal 6-250ng	6	✓	250.0	242.9	97.1
p1 Cal 7-500ng	7	✓	500.0	482.7	96.5
p1 Cal 8-1000ng	8	✓	1000.0	843.1	84.3

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Morphine **Internal Standard** Morphine-D6



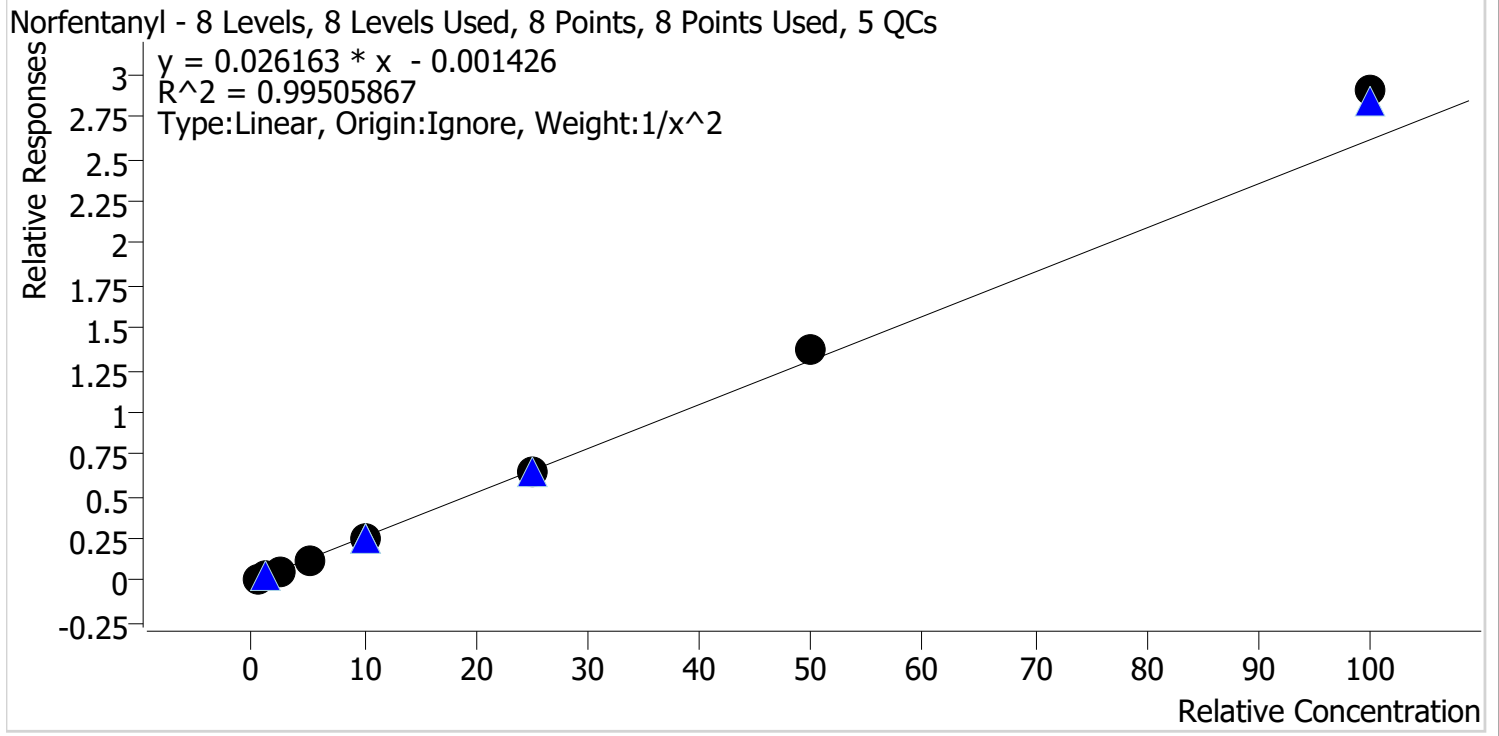
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.8
p1 Cal 2-10ng	2	✓	10.0	10.3	103.3
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.3
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	249.1	99.6
p1 Cal 7-500ng	7	✓	500.0	480.3	96.1
p1 Cal 8-1000ng	8	✓	1000.0	965.4	96.5

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Norfentanyl **Internal Standard** Norfentanyl-D5



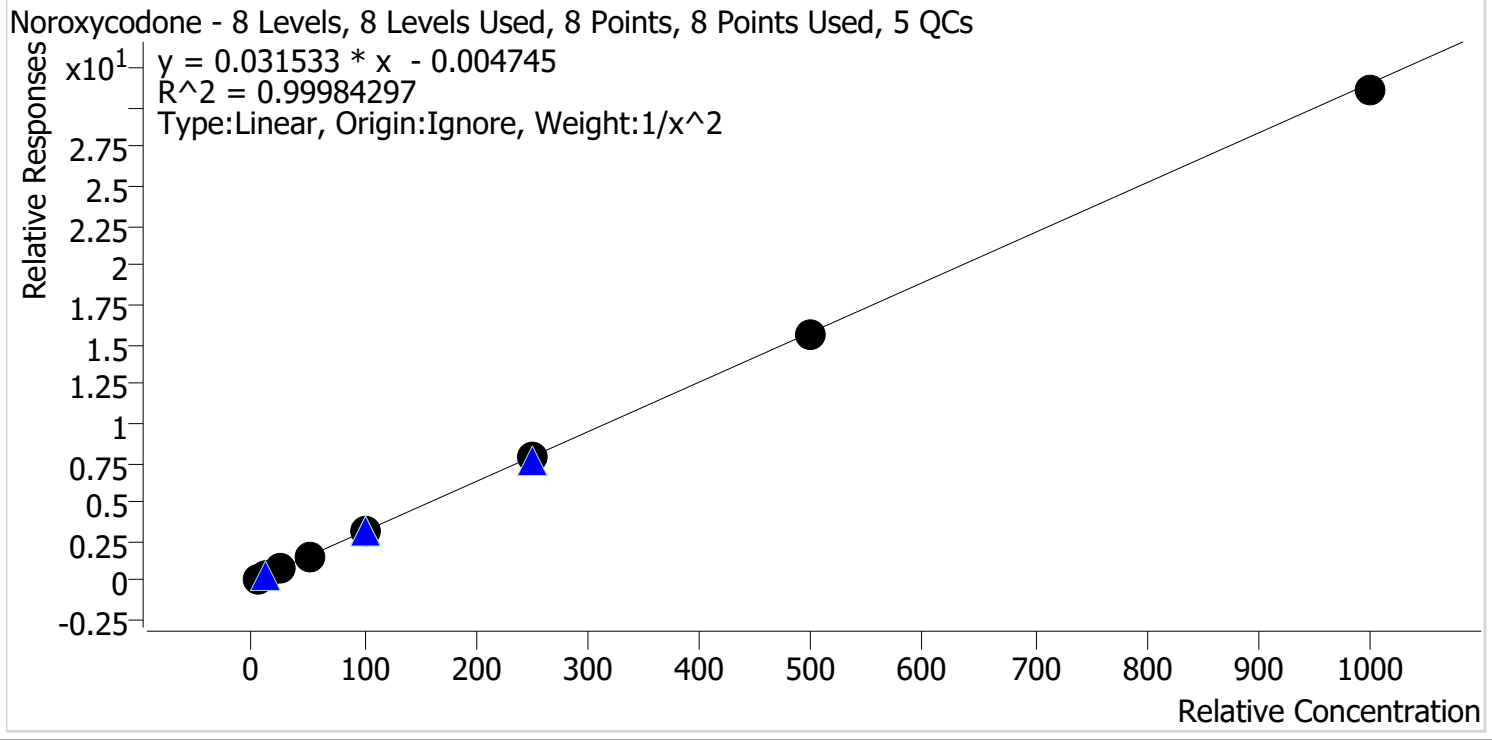
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.2
p1 Cal 2-10ng	2	✓	1.0	1.0	95.1
p1 Cal 3 -25ng	3	✓	2.5	2.4	94.0
p1 Cal 4-50ng	4	✓	5.0	4.8	95.9
p1 Cal 5-100ng	5	✓	10.0	9.5	95.1
p1 Cal 6-250ng	6	✓	25.0	25.0	100.1
p1 Cal 7-500ng	7	✓	50.0	52.2	104.4
p1 Cal 8-1000ng	8	✓	100.0	111.1	111.1

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.5
p1 Cal 2-10ng	2	✓	10.0	10.0	100.5
p1 Cal 3 -25ng	3	✓	25.0	25.1	100.6
p1 Cal 4-50ng	4	✓	50.0	50.9	101.8
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	250.1	100.0
p1 Cal 7-500ng	7	✓	500.0	493.2	98.6
p1 Cal 8-1000ng	8	✓	1000.0	985.2	98.5



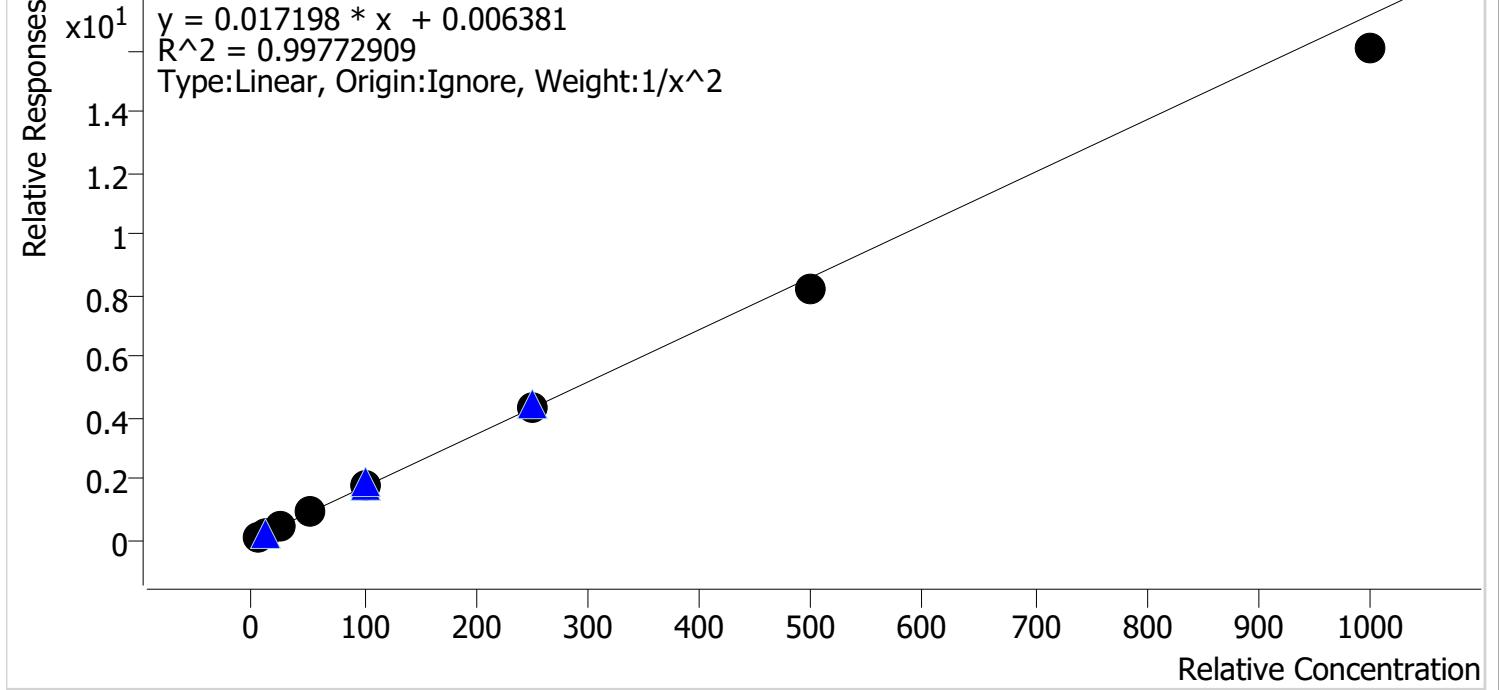
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



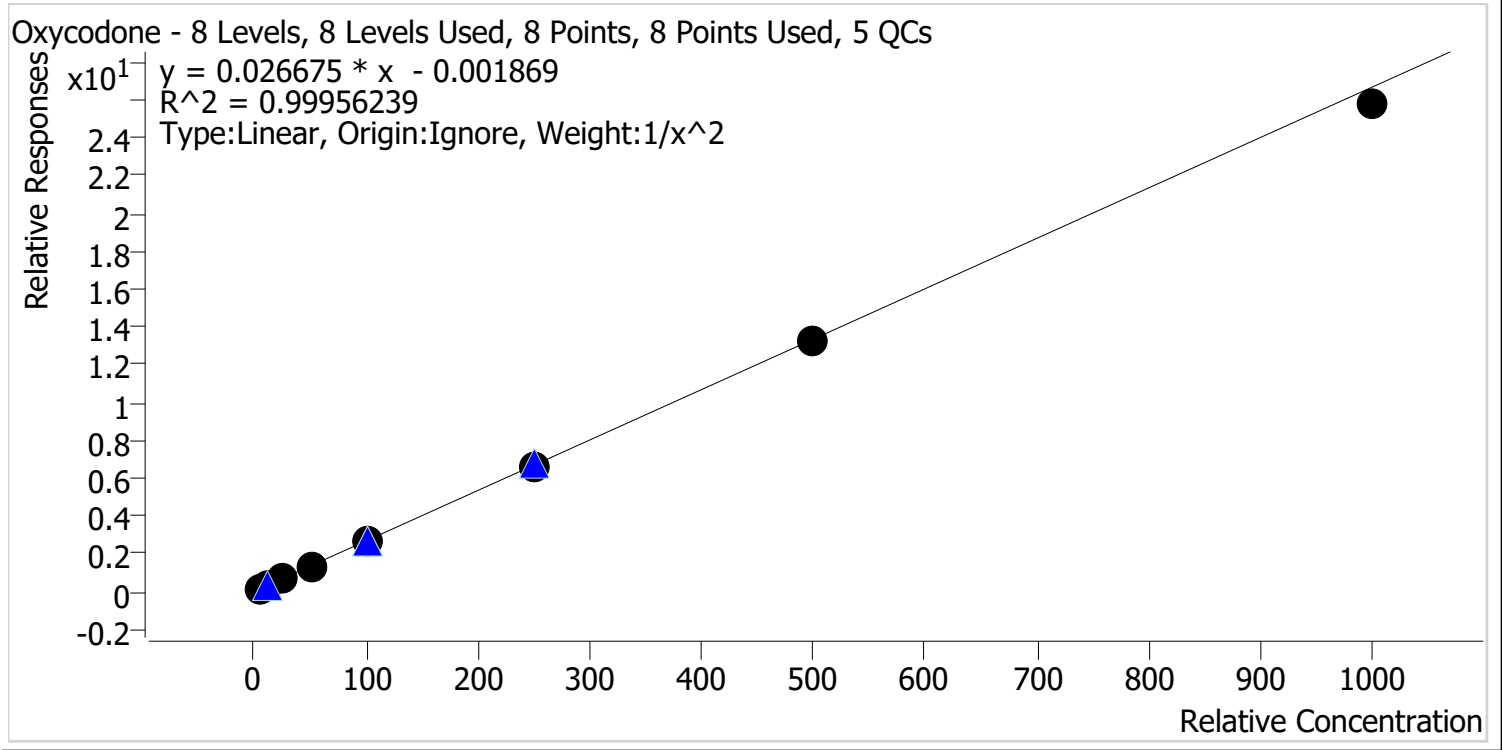
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.2
p1 Cal 2-10ng	2	✓	10.0	9.9	99.2
p1 Cal 3 -25ng	3	✓	25.0	25.8	103.2
p1 Cal 4-50ng	4	✓	50.0	51.5	103.0
p1 Cal 5-100ng	5	✓	100.0	106.1	106.1
p1 Cal 6-250ng	6	✓	250.0	250.7	100.3
p1 Cal 7-500ng	7	✓	500.0	477.1	95.4
p1 Cal 8-1000ng	8	✓	1000.0	935.9	93.6

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6



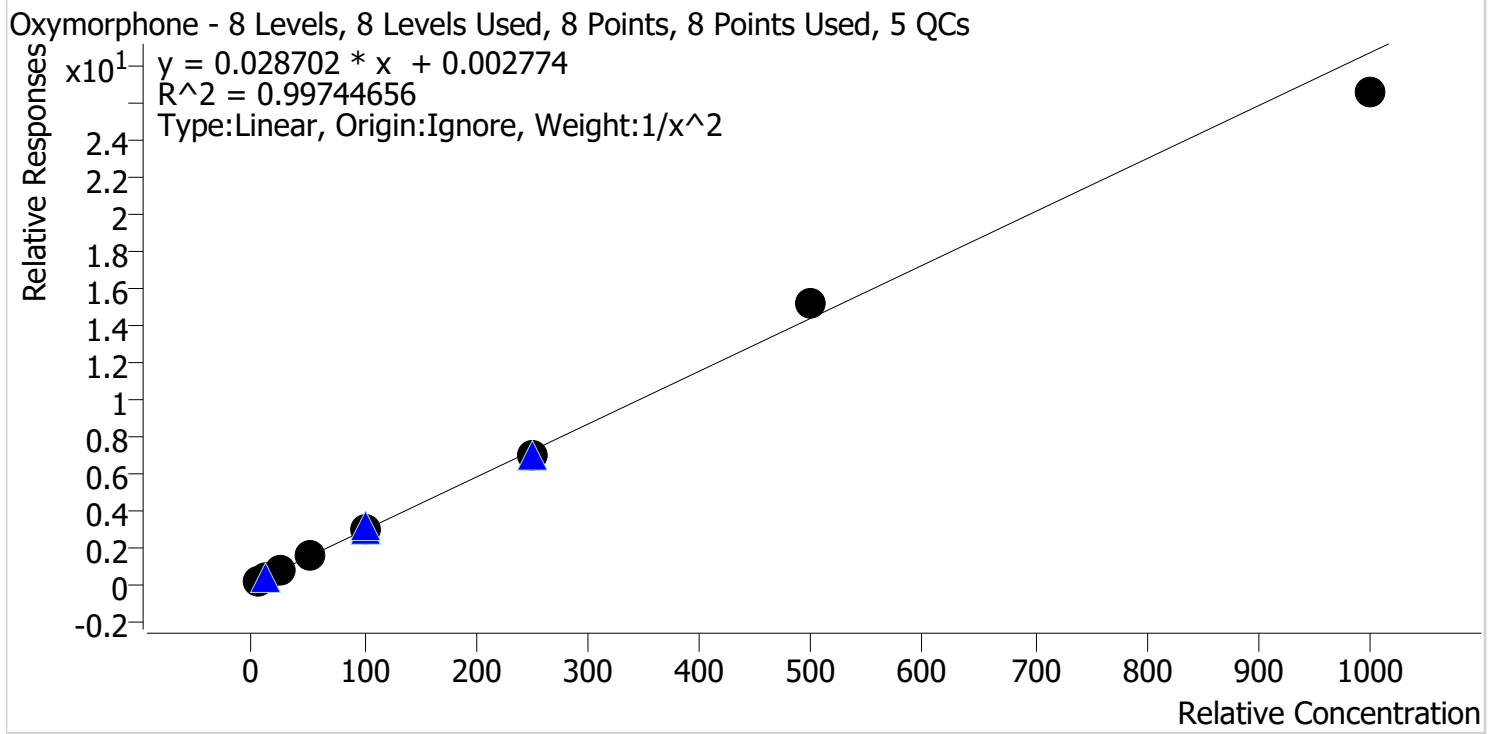
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.1
p1 Cal 2-10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.2
p1 Cal 4-50ng	4	✓	50.0	50.7	101.4
p1 Cal 5-100ng	5	✓	100.0	102.7	102.7
p1 Cal 6-250ng	6	✓	250.0	248.1	99.2
p1 Cal 7-500ng	7	✓	500.0	498.6	99.7
p1 Cal 8-1000ng	8	✓	1000.0	968.0	96.8

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2-10ng	2	✓	10.0	9.7	96.7
p1 Cal 3 -25ng	3	✓	25.0	24.7	99.0
p1 Cal 4-50ng	4	✓	50.0	52.5	105.0
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	244.1	97.7
p1 Cal 7-500ng	7	✓	500.0	525.6	105.1
p1 Cal 8-1000ng	8	✓	1000.0	924.7	92.5

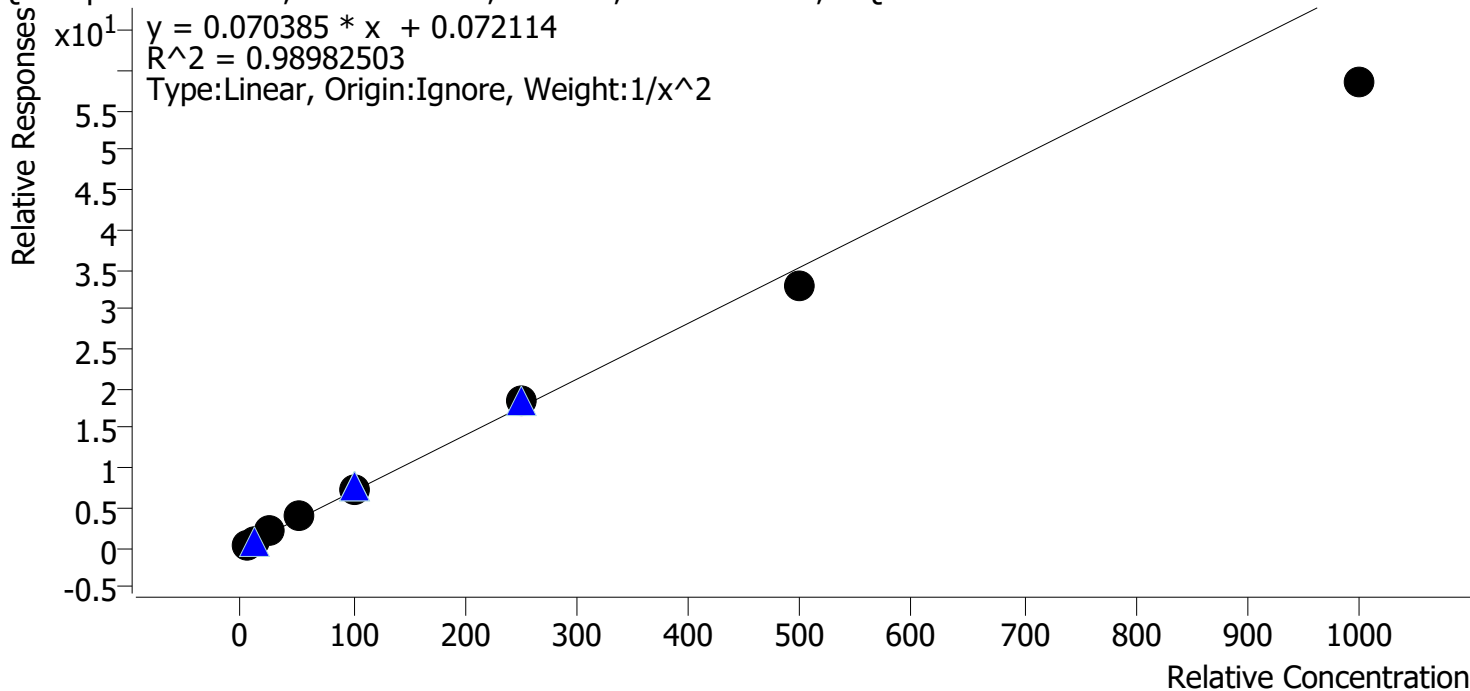
TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

Quetiapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 5 QCs



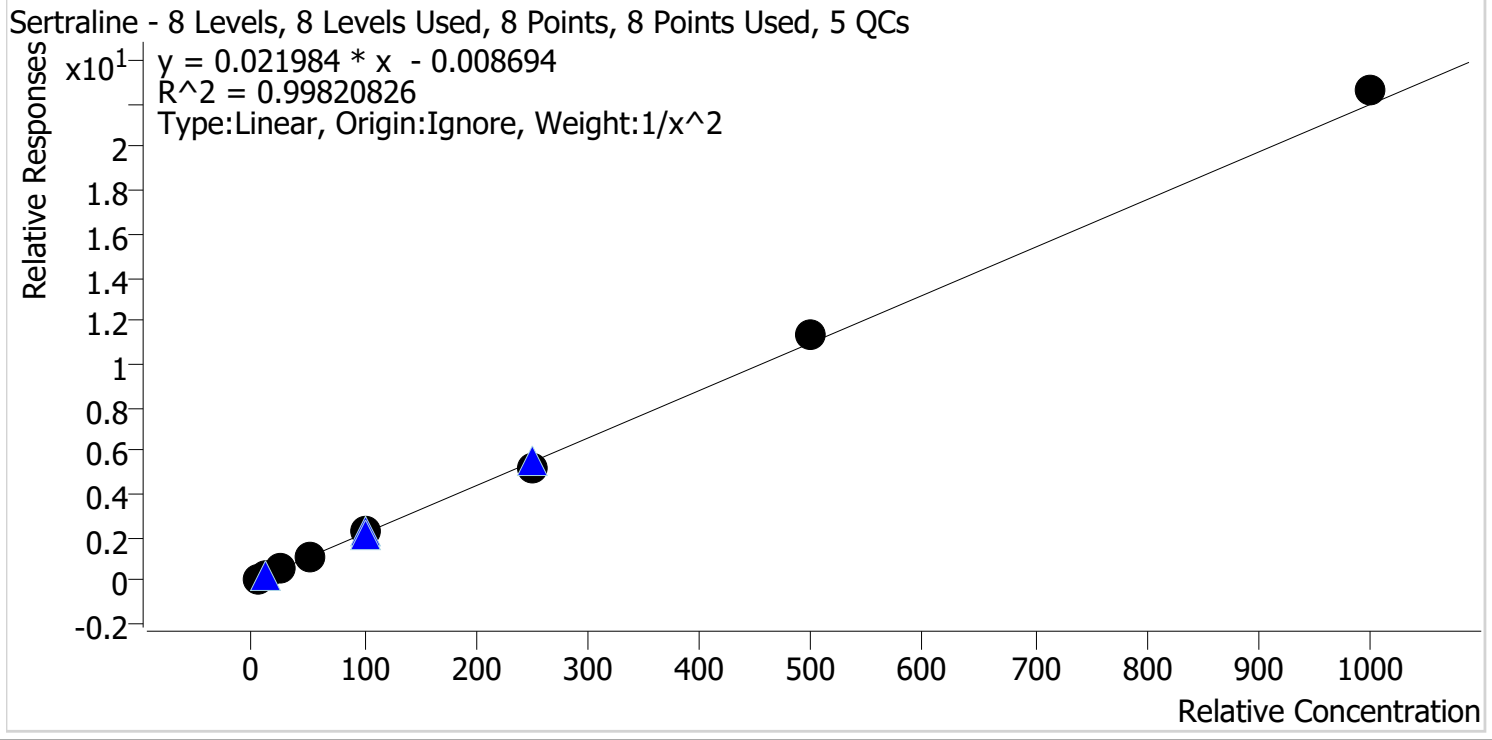
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.9
p1 Cal 2-10ng	2	✓	10.0	10.1	100.6
p1 Cal 3 -25ng	3	✓	25.0	27.3	109.2
p1 Cal 4-50ng	4	✓	50.0	54.1	108.1
p1 Cal 5-100ng	5	✓	100.0	104.9	104.9
p1 Cal 6-250ng	6	✓	250.0	261.2	104.5
p1 Cal 7-500ng	7	✓	500.0	464.0	92.8
p1 Cal 8-1000ng	8	✓	1000.0	830.8	83.1

TS



# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Last Cal. Update** 11/20/2023 9:12 AM  
**Analyst Name** ISP\Datastor  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.4
p1 Cal 2-10ng	2	✓	10.0	10.2	101.8
p1 Cal 3 -25ng	3	✓	25.0	23.2	93.0
p1 Cal 4-50ng	4	✓	50.0	50.1	100.1
p1 Cal 5-100ng	5	✓	100.0	102.2	102.2
p1 Cal 6-250ng	6	✓	250.0	240.0	96.0
p1 Cal 7-500ng	7	✓	500.0	518.1	103.6
p1 Cal 8-1000ng	8	✓	1000.0	1029.1	102.9

# AM #28 Multi-Drug Quant. Results

TS



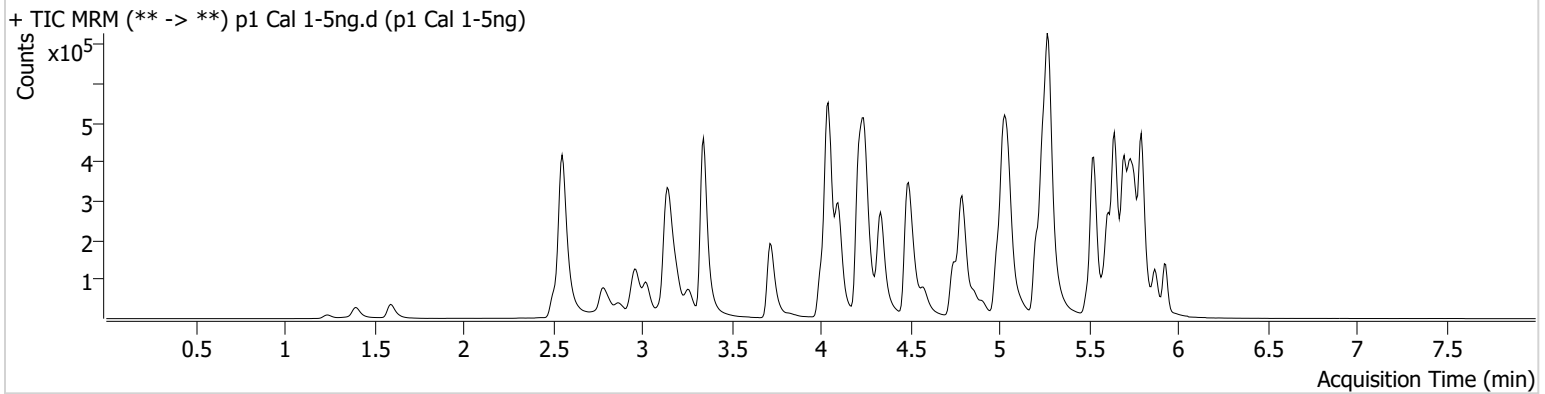
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-A1  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 11:19:38 AM  
**Sample Info.**

**Data File** p1 Cal 1-5ng.d  
**Sample** p1 Cal 1-5ng  
**Operator** Tamara Salazar  
**Comment**

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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.231	14584	6817.22	84.0	631.41	135938	4.8208 ng/ml
Alprazolam	5.760	33675	453.34	123.6	108.56	330004	5.2421 ng/ml
Amphetamine	3.029	92463	409.68	45.2	2292.91	245832	4.8142 ng/ml
Benzoylcegonine	3.857	1919	2168.85	7.1	492.87	14230	4.9721 ng/ml
Bupropion	4.758	61402	46338.67	70.7	367.29	384933	5.0365 ng/ml
Clonazepam	5.595	44518	131.24	33.7	69.20	114980	4.7700 ng/ml
Cyclobenzaprine	5.612	49529	102107.04	10.4	67.84	477343	5.1433 ng/ml
Dextromethorphan	5.256	36623	45110.92	88.8	38349.19	341473	5.0223 ng/ml
Diphenhydramine	5.277	144252	289.53	27.1	750.18	1381637	5.1442 ng/ml
Doxylamine	4.505	115438	102142.64	100.8	3559.36	1100851	5.2232 ng/ml
Duloxetine	5.638	5820	3321.07	9.5	673.28	64502	5.1580 ng/ml
Fentanyl	5.068	4398	167.11	88.2	3040.40	572568	0.5233 ng/ml
Fluoxetine	5.698	64339	2646.98	6.5	1663.57	439503	5.0986 ng/ml
Hydromorphone	1.602	16420	48231.06	74.5	50774.80	104739	5.0648 ng/ml
Ketamine	4.016	46236	219.91	36.6	330.23	349810	4.9242 ng/ml
Lamotrigine	4.254	4032	34.91	94.6	1918.67	1242434	4.7268 ng/ml
Methamphetamine	3.198	88995	1600.16	41.3	715.14	857158	4.9187 ng/ml
Metoprolol	4.307	12355	2271.43	105.1	1154.62	975367	4.7995 ng/ml
Morphine	1.247	2722	106.28	31.1	994.66	9197	4.8924 ng/ml
Norfentanyl	4.064	11264	8839.62	39.5	26.83	922901	0.5210 ng/ml
Noroxycodone	2.889	14529	333.83	50.5	99.15	95543	4.9730 ng/ml
Oxazepam	5.734	46138	8174.07	78.3	107.25	502992	4.9625 ng/ml
Oxycodone	2.814	38986	569.33	27.7	293.35	296152	5.0051 ng/ml
Oxymorphone	1.398	13223	320.42	44.4	299.92	89309	5.0621 ng/ml
Pseudoephedrine	2.562	116092	1148.57	17.0	3960.03	1242434	5.1941 ng/ml
Quetiapine	5.503	66579	267.08	50.4	63048.68	161158	4.8450 ng/ml
Sertraline	5.767	17810	165.56	108.0	248.99	175154	5.0207 ng/ml

# AM #28 Multi-Drug Quant. Results

TS

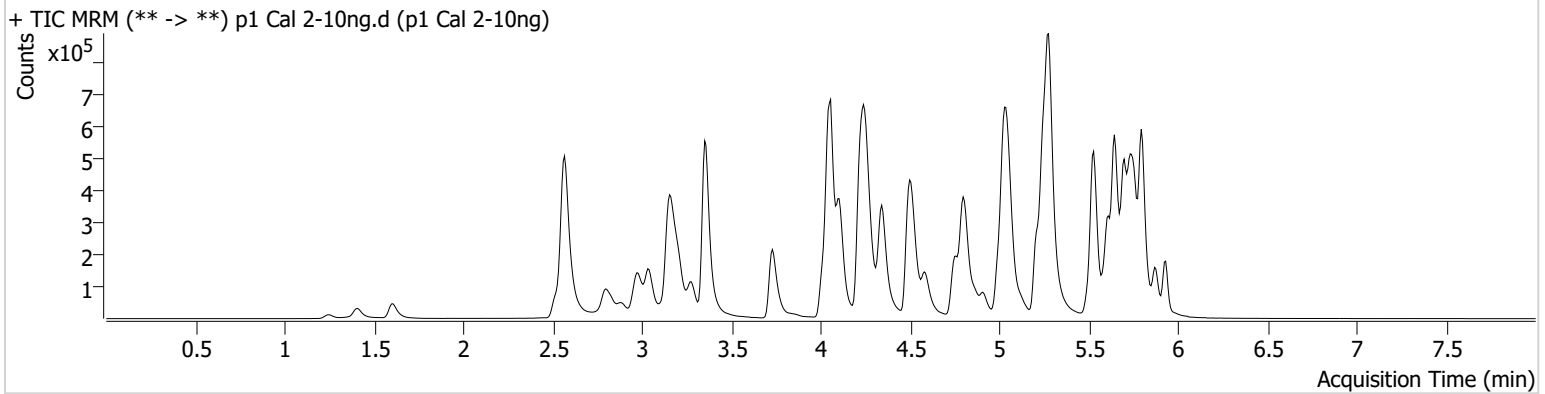


**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 Cal 2-10ng.d  
**Type** Cal **Sample** p1 Cal 2-10ng  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-B1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 11:30:26 AM  
**Sample Info.**

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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.238	37488	281.15	75.2	181.24	158069	10.5076 ng/ml
Alprazolam	5.760	73357	577.11	122.8	710.98	368470	9.4547 ng/ml
Amphetamine	3.043	222747	6581.49	45.7	19633.31	277243	10.5063 ng/ml
Benzoylcegonine	3.864	4354	699.38	9.4	1185.33	15277	10.1235 ng/ml
Bupropion	4.765	140547	205.40	69.1	3046.48	441121	9.8921 ng/ml
Clonazepam	5.595	99900	506.23	33.0	∞	128580	10.3424 ng/ml
Cyclobenzaprine	5.612	101151	268.59	10.0	286.70	479951	9.7683 ng/ml
Dextromethorphan	5.256	82555	89.55	85.8	78217.67	381440	9.9563 ng/ml
Diphenhydramine	5.284	312415	272.54	27.1	123.00	1545996	9.6013 ng/ml
Doxylamine	4.512	252338	1080.68	103.2	274.94	1242362	9.5021 ng/ml
Duloxetine	5.638	9851	829.57	13.2	135.79	58163	9.6318 ng/ml
Fentanyl	5.069	9426	3470.20	84.0	10525.90	597167	0.9704 ng/ml
Fluoxetine	5.698	112359	5566.33	7.1	6935.79	393783	9.8079 ng/ml
Hydromorphone	1.609	35068	1502.25	71.7	286.45	115092	9.7704 ng/ml
Ketamine	4.030	98944	459.63	37.5	205.85	400308	9.8693 ng/ml
Lamotrigine	4.267	9972	213.30	83.3	192.85	1387046	10.5618 ng/ml
Methamphetamine	3.211	191876	1060.52	40.5	1577.45	971733	9.9744 ng/ml
Metoprolol	4.314	27505	42133.78	99.7	276.06	1096804	10.3218 ng/ml
Morphine	1.253	5940	1665.78	30.5	777.44	9616	10.3322 ng/ml
Norfentanyl	4.071	23754	8957.35	36.3	94.60	1012757	0.9510 ng/ml
Noroxycodone	2.903	32435	516.61	48.6	929.09	103920	10.0485 ng/ml
Oxazepam	5.741	96534	∞	76.4	506.23	545651	9.9157 ng/ml
Oxycodone	2.821	85185	1072.07	28.1	351.59	325399	9.8841 ng/ml
Oxymorphone	1.411	25134	∞	47.9	187.69	89651	9.6712 ng/ml
Pseudoephedrine	2.576	258849	9432.61	16.4	7038.91	1387046	9.6310 ng/ml
Quetiapine	5.510	139052	286562.26	52.7	448.17	178302	10.0554 ng/ml
Sertraline	5.767	30540	184.53	97.2	1952.41	141989	10.1793 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

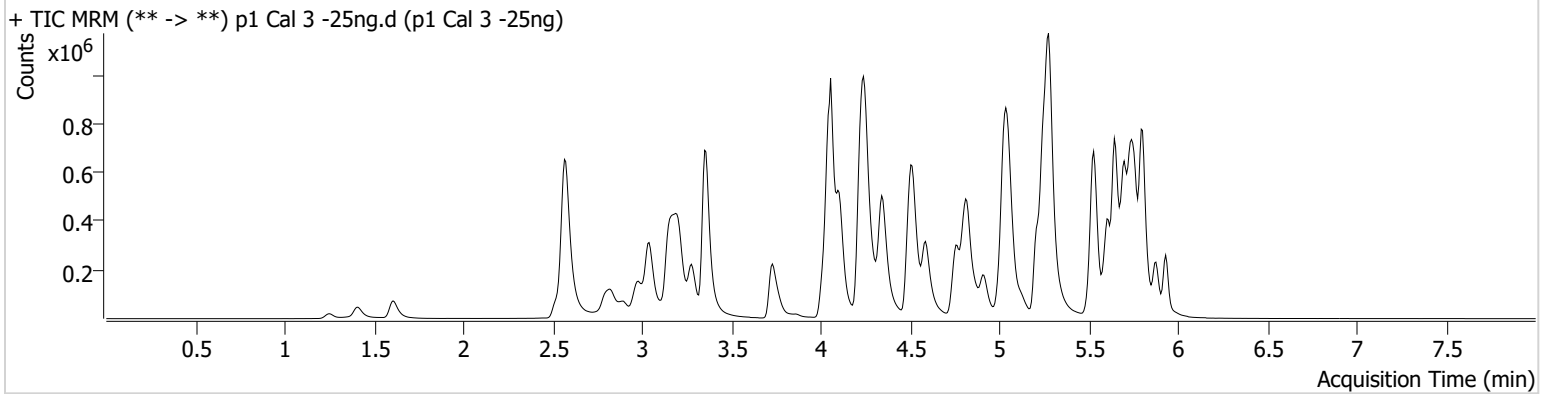
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-C1  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 11:41:04 AM  
**Sample Info.**

**Data File** p1 Cal 3 -25ng.d  
**Sample** p1 Cal 3 -25ng  
**Operator** 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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.238	89999	54.92	79.3	1202.39	153693	25.7626 ng/ml
Alprazolam	5.760	188935	981.98	121.2	596.38	366157	23.2120 ng/ml
Amphetamine	3.043	559679	14909.39	45.8	758.11	281048	26.3307 ng/ml
Benzoylcegonine	3.864	11025	135.71	8.0	309.75	15452	24.8197 ng/ml
Bupropion	4.765	358716	177879.79	68.9	7036.81	445011	24.7693 ng/ml
Clonazepam	5.595	254886	∞	34.6	1236.64	130369	27.1865 ng/ml
Cyclobenzaprine	5.612	213161	314200.44	10.0	56.66	392483	24.1353 ng/ml
Dextromethorphan	5.256	197190	5573.77	83.9	304.15	361911	24.7986 ng/ml
Diphenhydramine	5.284	781481	25098.67	27.1	219.10	1488869	24.3317 ng/ml
Doxylamine	4.512	657868	100962.08	101.0	29123.21	1257054	23.4485 ng/ml
Duloxetine	5.638	17115	496.23	12.4	478.46	40329	24.0484 ng/ml
Fentanyl	5.075	19789	10584.85	84.3	16309.07	504129	2.2653 ng/ml
Fluoxetine	5.705	196913	4541.43	6.8	4350.68	273454	24.5440 ng/ml
Hydromorphone	1.615	91002	3334.32	75.2	277405.24	117156	24.7871 ng/ml
Ketamine	4.030	253121	398.14	36.6	666.74	396067	26.7226 ng/ml
Lamotrigine	4.261	25991	575.31	82.5	44651.78	1387256	27.6428 ng/ml
Methamphetamine	3.211	487240	4761.86	40.2	4065.79	977465	26.2280 ng/ml
Metoprolol	4.314	69642	6941.74	105.9	4316.94	1130697	26.5700 ng/ml
Morphine	1.253	15156	8377.59	30.9	852.42	10175	25.0703 ng/ml
Norfentanyl	4.071	61108	364.04	35.7	380.83	1017492	2.3500 ng/ml
Noroxycodone	2.903	85306	649.26	44.7	458.10	108240	25.1439 ng/ml
Oxazepam	5.741	238024	203.58	77.4	171.39	528906	25.7962 ng/ml
Oxycodone	2.828	224962	1642.91	28.3	341.78	334368	25.2924 ng/ml
Oxymorphone	1.411	64809	364.80	45.0	246.24	90913	24.7406 ng/ml
Pseudoephedrine	2.576	662541	1570.97	16.9	15768.54	1387256	23.4860 ng/ml
Quetiapine	5.510	347261	12944.10	51.9	332587.75	174241	27.2910 ng/ml
Sertraline	5.767	44931	2196.50	110.2	233.74	89428	23.2498 ng/ml



TS



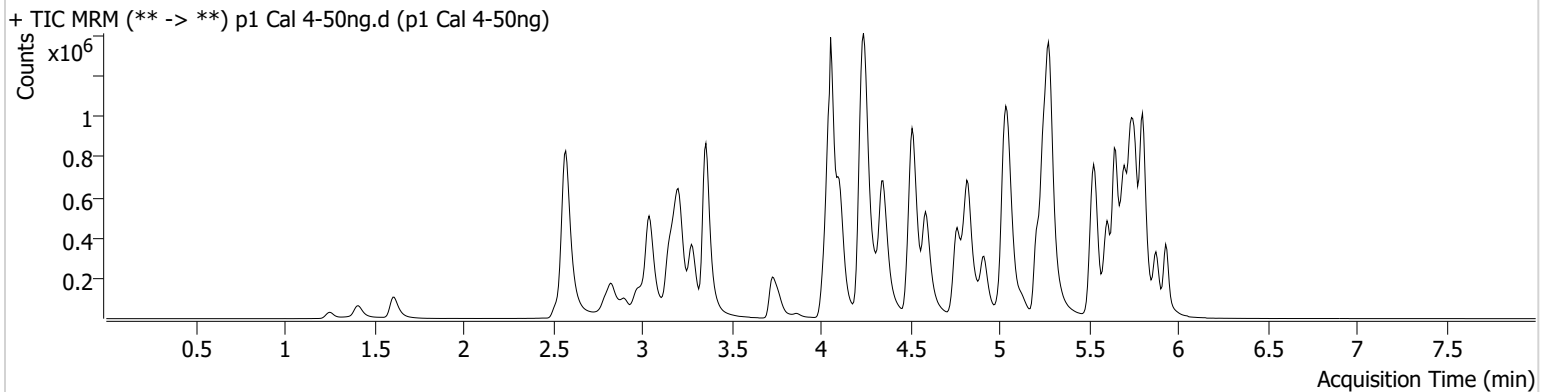
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 Cal 4-50ng.d  
**Type** Cal **Sample** p1 Cal 4-50ng  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-D1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 11:51:41 AM  
**Sample Info.**

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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	170309	178.48	80.7	100.10	148506	50.3362 ng/ml
Alprazolam	5.760	365256	2916.76	120.9	1466.59	346859	46.5253 ng/ml
Amphetamine	3.043	996708	3099.98	45.7	10057.66	257963	51.2716 ng/ml
Benzoylcegonine	3.864	20924	59748.42	8.0	5129.37	14400	50.1861 ng/ml
Bupropion	4.765	656625	733625.85	68.9	14282.48	403567	49.8246 ng/ml
Clonazepam	5.595	466026	396.81	34.3	1012.89	121546	54.0506 ng/ml
Cyclobenzaprine	5.619	258021	6579.96	10.2	10942.43	245747	46.0447 ng/ml
Dextromethorphan	5.256	307792	6143.74	84.5	465489.93	280490	49.7661 ng/ml
Diphenhydramine	5.284	1292136	995.74	27.7	36919.01	1231214	48.2707 ng/ml
Doxylamine	4.518	1225975	92532.87	100.9	3469.94	1162225	46.5966 ng/ml
Duloxetine	5.645	19681	12756.85	11.7	658.44	23297	47.8149 ng/ml
Fentanyl	5.069	27150	111.93	84.9	32535.71	338039	4.5310 ng/ml
Fluoxetine	5.705	210675	392708.72	7.4	9501.10	150558	47.5650 ng/ml
Hydromorphone	1.615	172365	617.65	74.8	1685.61	110185	49.8401 ng/ml
Ketamine	4.030	463930	4576.33	38.3	251.90	372743	52.7627 ng/ml
Lamotrigine	4.267	45003	1172.22	86.0	1687.41	1278815	51.9854 ng/ml
Methamphetamine	3.212	892198	806.82	40.4	3039.31	906607	52.4501 ng/ml
Metoprolol	4.314	132010	48493.51	103.0	1362.57	1054027	54.8933 ng/ml
Morphine	1.253	29124	4787.03	30.1	716.62	9480	51.8268 ng/ml
Norfentanyl	4.071	113566	388.38	36.8	851.81	915938	4.7936 ng/ml
Noroxycodone	2.903	154690	2543.63	46.5	745.13	96702	50.8797 ng/ml
Oxazepam	5.741	431169	1344.11	76.4	1800.43	483235	51.5096 ng/ml
Oxycodone	2.828	416977	1505.01	28.4	493.07	308729	50.7034 ng/ml
Oxymorphone	1.412	120976	∞	45.6	∞	80108	52.5194 ng/ml
Pseudoephedrine	2.582	1225093	144498.96	16.8	86270.31	1278815	46.3608 ng/ml
Quetiapine	5.510	575812	193.81	54.3	229922.48	148503	54.0644 ng/ml
Sertraline	5.767	58086	33411.16	101.6	12294.17	53210	50.0520 ng/ml

TS



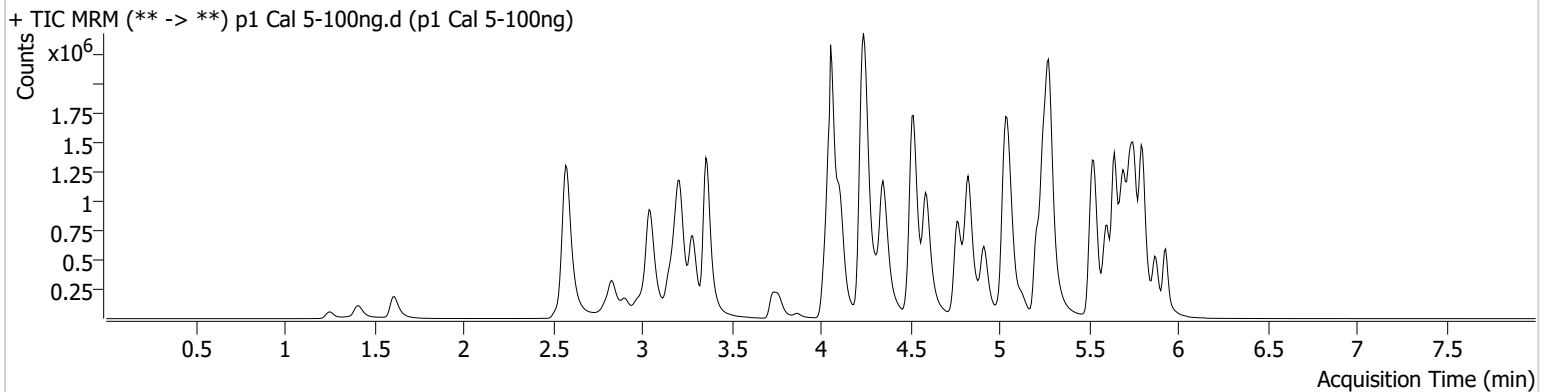
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 Cal 5-100ng.d  
**Type** Cal **Sample** p1 Cal 5-100ng  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-E1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 12:02:18 PM  
**Sample Info.**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.245	332075	2538.35	77.4	167.08	130117	111.8670 ng/ml
Alprazolam	5.753	724228	795.56	121.8	1118.59	329303	96.2840 ng/ml
Amphetamine	3.049	2056543	1411.08	43.4	1944.75	269034	101.6290 ng/ml
Benzoylcegonine	3.871	45761	2478.20	7.2	9978.42	15658	100.5857 ng/ml
Bupropion	4.772	1361650	1404401.73	69.9	17274.28	413903	100.5697 ng/ml
Clonazepam	5.595	884635	204181.24	34.1	724706.06	115328	108.9003 ng/ml
Cyclobenzaprine	5.612	525921	707.65	9.7	65.00	245019	93.4441 ng/ml
Dextromethorphan	5.256	619618	525.52	81.9	15850.15	281980	99.4795 ng/ml
Diphenhydramine	5.284	2667571	35046.40	27.8	401.78	1240311	98.5237 ng/ml
Doxylamine	4.518	2671746	64160.94	99.1	2434.31	1216920	96.2734 ng/ml
Duloxetine	5.638	37110	616.25	11.3	1861.73	22255	94.3258 ng/ml
Fentanyl	5.075	55704	502696.53	88.1	121380.44	347213	8.9513 ng/ml
Fluoxetine	5.698	380598	83902.52	7.0	63270.32	134137	96.3080 ng/ml
Hydromorphone	1.615	357321	717345.42	74.9	1419.27	112737	100.9017 ng/ml
Ketamine	4.030	956994	1162270.82	37.2	3309.43	385142	106.0920 ng/ml
Lamotrigine	4.267	90814	19451.52	86.9	3755.63	1281448	104.7641 ng/ml
Methamphetamine	3.218	1871704	29588.73	40.0	42246.08	943407	106.4392 ng/ml
Metoprolol	4.314	266716	429024.27	105.4	268768.74	1103211	106.7419 ng/ml
Morphine	1.253	59234	1371.75	30.3	1929.29	9743	102.6731 ng/ml
Norfentanyl	4.071	220117	9648.20	37.8	505.09	889492	9.5132 ng/ml
Noroxycodone	2.910	308300	9598.83	47.3	324.79	97409	100.5217 ng/ml
Oxazepam	5.734	764474	5246.79	74.1	207.71	417436	106.1142 ng/ml
Oxycodone	2.828	894310	971.48	27.8	2870.38	326560	102.7359 ng/ml
Oxymorphone	1.411	246243	∞	45.9	691.44	83387	102.7904 ng/ml
Pseudoephedrine	2.582	2553184	98021.27	16.8	130205.15	1281448	95.6165 ng/ml
Quetiapine	5.510	1171722	45816.85	55.7	37043.59	157179	104.8887 ng/ml
Sertraline	5.767	91663	5145.84	98.9	425.04	40972	102.1610 ng/ml

TS



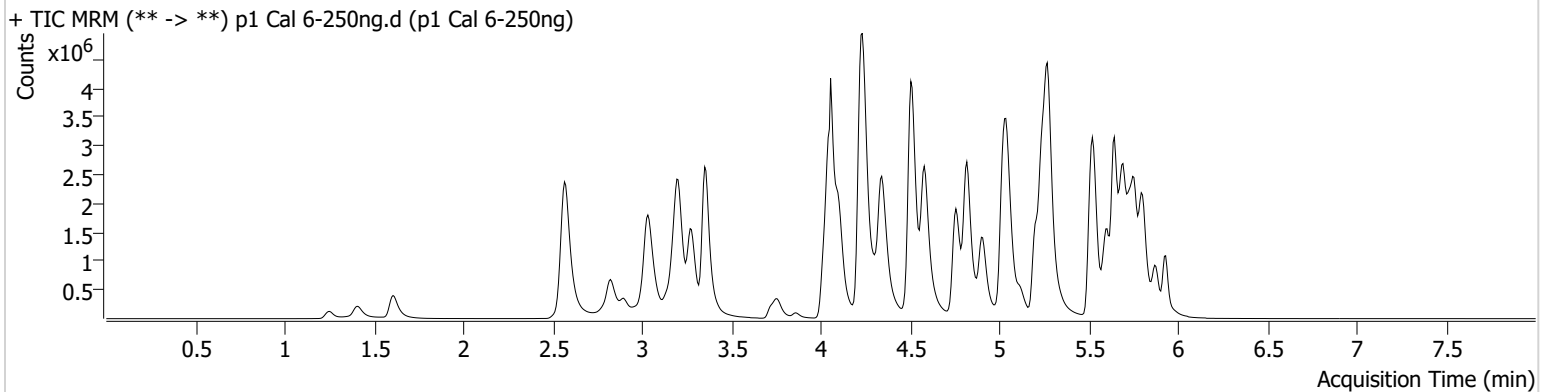
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 Cal 6-250ng.d  
**Type** Cal **Sample** p1 Cal 6-250ng  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-F1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 12:12:56 PM  
**Sample Info.**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.238	664853	522.78	78.4	2009.05	122982	236.8271 ng/ml
Alprazolam	5.753	1580275	∞	116.7	950.53	262476	262.1720 ng/ml
Amphetamine	3.036	4174927	13770.83	43.5	55381.57	249286	222.8914 ng/ml
Benzoylcegonine	3.857	113028	20111.00	8.1	27405.08	15161	256.0626 ng/ml
Bupropion	4.758	3319660	9913262.54	70.2	8592.65	408872	247.9556 ng/ml
Clonazepam	5.588	1654201	68930.01	34.3	26208.87	90938	259.3017 ng/ml
Cyclobenzaprine	5.612	1490730	646.73	9.2	59056.65	261343	247.2339 ng/ml
Dextromethorphan	5.249	1519535	33578.37	78.3	452.52	276347	248.6703 ng/ml
Diphenhydramine	5.277	6464437	1912.27	28.3	526.03	1184775	249.3644 ng/ml
Doxylamine	4.505	6841334	8128.31	97.1	4296.31	1193726	250.2528 ng/ml
Duloxetine	5.638	90964	2521.53	11.5	299.05	19764	260.2573 ng/ml
Fentanyl	5.062	161545	156.61	82.4	232.02	365884	24.4603 ng/ml
Fluoxetine	5.698	973252	313845.47	7.3	256562.65	136526	241.7596 ng/ml
Hydromorphone	1.609	839636	2787228.88	75.6	8139.59	107060	249.5570 ng/ml
Ketamine	4.023	2197758	64259.89	36.5	9172.91	368124	255.9716 ng/ml
Lamotrigine	4.261	190063	1509.21	88.3	496.67	1103208	254.7893 ng/ml
Methamphetamine	3.205	4423655	2795.38	39.5	31343.49	923877	257.8517 ng/ml
Metoprolol	4.307	595494	394169.18	106.2	35471.69	1087320	242.8636 ng/ml
Morphine	1.253	141477	853.59	30.1	465.43	9598	249.0792 ng/ml
Norfentanyl	4.064	465683	580.10	37.8	594.98	712557	25.0343 ng/ml
Noroxycodone	2.896	673539	6426.61	46.9	969.70	85453	250.1084 ng/ml
Oxazepam	5.734	1110801	11730.55	74.5	2520.58	257293	250.6582 ng/ml
Oxycodone	2.821	2079613	7197.05	28.3	1546.57	314377	248.0593 ng/ml
Oxymorphone	1.405	555810	505.65	45.7	∞	79289	244.1400 ng/ml
Pseudoephedrine	2.576	5787232	129997.73	16.5	64983.50	1103208	250.5310 ng/ml
Quetiapine	5.503	2895669	23395.15	57.2	730720.34	156888	261.2032 ng/ml
Sertraline	5.760	210716	839.22	99.0	227.59	40004	239.9983 ng/ml

TS



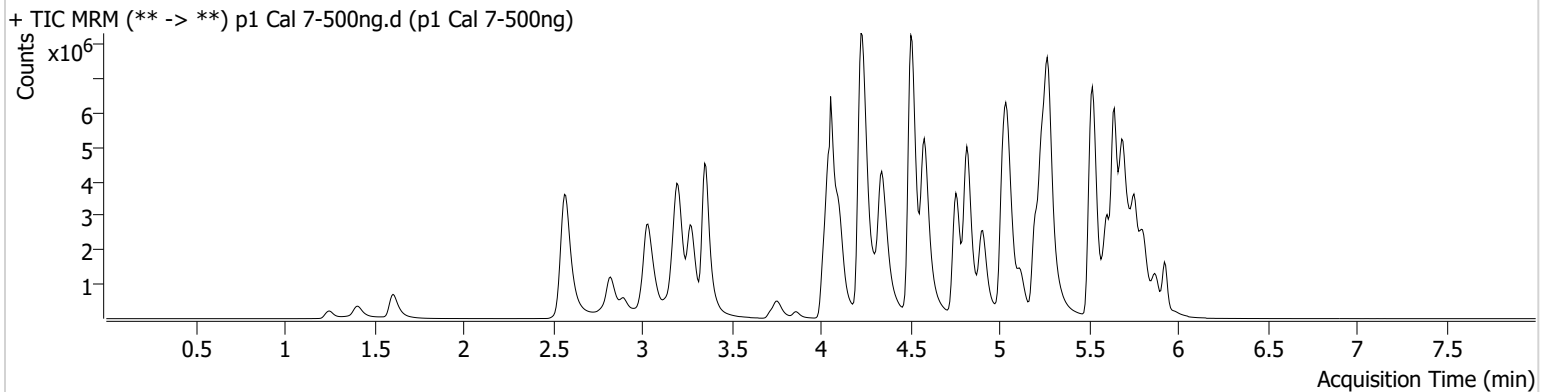
# AM #28 Multi-Drug Quant. Results

**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901) **Data File** p1 Cal 7-500ng.d  
**Type** Cal **Sample** p1 Cal 7-500ng  
**Acq. Method** AM 28 MDQ P1.m **Operator** Tamara Salazar  
**Sample Position** P2-G1 **Comment**  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 12:23:33 PM  
**Sample Info.**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.238	1026755	13639.97	77.8	3812.20	101982	440.9435 ng/ml
Alprazolam	5.753	2470160	∞	115.0	∞	202592	530.1088 ng/ml
Amphetamine	3.036	6612264	109328.14	42.9	10577.34	239893	366.9652 ng/ml
Benzoylcegonine	3.864	238956	674.62	8.0	33696.74	16890	485.6057 ng/ml
Bupropion	4.758	6582687	379967.51	69.8	1982.65	395789	507.7581 ng/ml
Clonazepam	5.588	2030954	17450.13	34.1	1735.57	64259	451.0987 ng/ml
Cyclobenzaprine	5.605	4243351	107087.18	8.5	232.21	344161	533.6364 ng/ml
Dextromethorphan	5.249	2869387	685.42	77.4	574.37	256641	505.4464 ng/ml
Diphenhydramine	5.277	12678173	2266.80	28.0	106632.17	1102731	525.0237 ng/ml
Doxylamine	4.505	14319994	21015.15	94.2	191747.73	1143850	545.8817 ng/ml
Duloxetine	5.631	259947	3598.75	11.7	625.71	27761	529.4358 ng/ml
Fentanyl	5.068	440180	40676.89	77.6	394656.31	442099	55.0350 ng/ml
Fluoxetine	5.698	3071132	36044.92	6.9	379147.57	198829	523.6729 ng/ml
Hydromorphone	1.609	1598531	4452027.93	75.4	6029439.64	100484	506.1324 ng/ml
Ketamine	4.023	3814492	245383.19	35.3	45539.38	343293	477.0610 ng/ml
Lamotrigine	4.261	294925	7606.23	84.9	231383.26	920115	474.0980 ng/ml
Methamphetamine	3.205	8176730	339848.94	38.4	201939.61	910505	484.2176 ng/ml
Metoprolol	4.307	983553	390745.41	106.0	197672.96	905179	482.6670 ng/ml
Morphine	1.253	267270	165.29	30.6	2257.40	9406	480.2724 ng/ml
Norfentanyl	4.071	688403	10650.77	38.8	8203.28	504483	52.2117 ng/ml
Noroxycodone	2.896	1169630	2213.68	48.0	18270.91	75235	493.1690 ng/ml
Oxazepam	5.734	1109126	14621.32	77.6	17927.12	135070	477.0901 ng/ml
Oxycodone	2.821	3970613	21820.83	28.3	1100.16	298593	498.5851 ng/ml
Oxymorphone	1.405	1062677	∞	45.6	∞	70428	525.6220 ng/ml
Pseudoephedrine	2.576	10226755	106332.18	16.1	46567.27	920115	529.9825 ng/ml
Quetiapine	5.503	5388053	876657.07	58.8	62195.82	164611	464.0189 ng/ml
Sertraline	5.760	729034	553.43	98.6	5481.61	64057	518.0918 ng/ml

TS



# AM #28 Multi-Drug Quant. Results

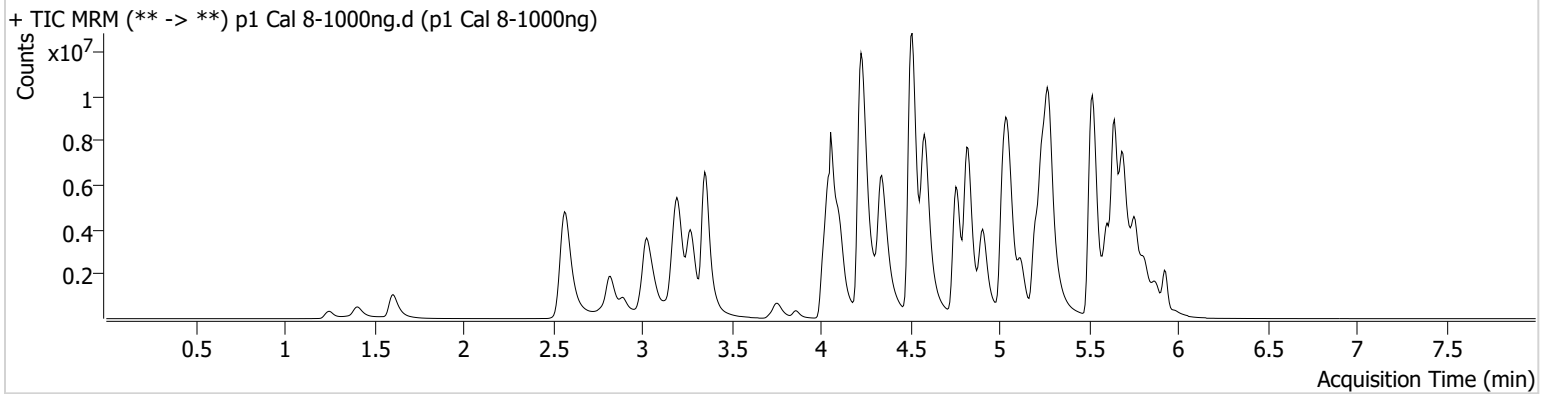
**Batch results** D:\MassHunter\Data\2023\AM 27 28\111723 AM 27 28 TS\QuantResults\AM 28\_cases.batch.bin  
**Calibration Last Update** 11/20/2023 9:12:19 AM

**Instrument** Falco (069901)  
**Type** Cal  
**Acq. Method** AM 28 MDQ P1.m  
**Sample Position** P2-H1  
**Injection Volume** 2  
**Acq. Date-Time** 11/17/2023 12:34:10 PM  
**Sample Info.**

**Data File** p1 Cal 8-1000ng.d  
**Sample** p1 Cal 8-1000ng  
**Operator** 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.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
7-aminoclonazepam	4.231	1094760	19069.15	76.8	∞	65804	728.5479 ng/ml
Alprazolam	5.753	3294266	1129.15	112.3	∞	133083	1075.3748 ng/ml
Amphetamine	3.029	8784101	4793.15	43.4	3579.34	196943	593.9330 ng/ml
Benzoylcegonine	3.864	426531	31261.75	8.2	36514.68	14703	995.3941 ng/ml
Bupropion	4.758	11238845	252932.46	68.8	118812.17	341967	1003.1902 ng/ml
Clonazepam	5.588	2182470	9687.33	33.9	559292.38	38255	814.8850 ng/ml
Cyclobenzaprine	5.612	6662212	106392.44	8.2	382.40	257849	1117.5634 ng/ml
Dextromethorphan	5.249	4088801	1705.73	77.7	490.41	182572	1012.2748 ng/ml
Diphenhydramine	5.277	19044108	93819.16	28.6	18273.46	836225	1039.6177 ng/ml
Doxylamine	4.512	24167580	10282.13	94.4	6460.25	975369	1079.7680 ng/ml
Duloxetine	5.631	343493	328571.00	12.3	310.44	18605	1043.8256 ng/ml
Fentanyl	5.068	786273	83919.55	76.1	1729.72	362914	119.6390 ng/ml
Fluoxetine	5.698	4823485	81511.46	6.9	21004.64	150150	1088.9767 ng/ml
Hydromorphone	1.609	2592657	14750484.28	75.6	10170700.15	82298	1002.2114 ng/ml
Ketamine	4.016	5776633	2027.86	35.3	51982.28	286877	865.1482 ng/ml
Lamotrigine	4.267	375065	3337.58	83.2	25462.06	662014	838.0451 ng/ml
Methamphetamine	3.205	12781900	104933.29	37.6	21384.69	805188	856.4640 ng/ml
Metoprolol	4.307	1385105	12172.63	106.1	857455.11	730354	843.0536 ng/ml
Morphine	1.253	417609	698.25	30.4	1322.07	7312	965.3565 ng/ml
Norfentanyl	4.071	860342	7406.05	38.3	6918.79	296053	111.1302 ng/ml
Noroxycodone	2.896	1799203	1087.08	47.9	509.60	57923	985.2073 ng/ml
Oxazepam	5.734	1026116	7213.76	73.9	5451.71	63723	935.9373 ng/ml
Oxycodone	2.821	6589829	∞	28.2	2779.65	255220	968.0367 ng/ml
Oxymorphone	1.405	1553162	1564.36	47.4	∞	58512	924.7472 ng/ml
Pseudoephedrine	2.576	15466136	101211.22	16.1	517.76	662014	1113.1665 ng/ml
Quetiapine	5.503	8021349	153569.33	60.0	371592.42	137006	830.7938 ng/ml
Sertraline	5.767	1177374	221211.76	93.6	2992.08	52062	1029.1051 ng/ml