




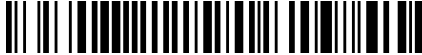













**REVIEWED**

By Sarah Collins at 8:38 am, Aug 09, 2021

8/2/2021

**Worklist: 5148**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-2994	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2021-3036	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2021-3135	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
M2021-3249	2	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2458	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2470	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2471	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2472	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2474	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2475	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2478	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2484	3	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2487	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2523	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2527	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2528	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	
P2021-2529	1	BCK	AM 28 Blood Multi-Drug Quant Panel 1 by LC-QQQ	

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

Extraction Date: 8/03/2021

Analyst: Amber Gerheart

Plate lot#: 210610

Plate Retest Date: 12/10/2021

**Mobile phase A:** 5mM Amm Form + 0.01% FA

**Mobile phase B:** 0.01% Formic Acid in MeOH

**Blank Blood Lot:** Lampire 20L20724

**Blank Urine Lot:** N/A

**Column:** Agilent 120 EC-C18 (2.1x 100-2.7um)

**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 pipette 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer, mix for at least 5 minutes at ambient temperature. Pipette **250µL blood (calibrated pipette) or 250µL hydrolyzed urine** in wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 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 **300µL of blood+base/urine+base** 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)**
- 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. **If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).** Place on SPE Dry and evaporate to dryness at approx. 35°C.
- 16. Reconstitute in **100µL 20% MeOH** and heat seal plate with foil.

## 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: *Calibration Curve Range:* alpha-hydroxyalprazolam 5-250 ng/mL, alpha-PHP 5-500 ng/mL, amphetamine 5-500 ng/mL, buprenorphine 1-100 ng/mL, codeine 5-500 ng/mL, dihydrocodeine 5-500 ng/mL, lamotrigine 5-250 ng/mL, lorazepam 5-100 ng/mL, meprobamate 5-250 ng/mL

Qualitative only: alpha-hydroxyalprazolam, clonazepam

alpha-hydroxyalprazolam evaluated qualitatively due to surrogate ISTD being used (Alprazolam-D5), clonazepam evaluated qualitatively due to QC 100 accuracy being out

Norbuprenorphine not evaluated due to the ratio being out.

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + QC_1	M2021-3135-1	P2021-2478-1	IS + Cal. 1	IS + QC_1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 8
B	IS + Cal. 2	IS + QC_2	M2021-3249-2	P2021-2484-3	IS + Cal. 2	IS + QC_2	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 7
C	IS + Cal. 3	IS + QC_3	P2021-2458-1	P2021-2487-1	IS + Cal. 3	IS + QC_3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	IS + QC_4	P2021-2470-1	P2021-2523-1	IS + Cal. 4	IS + QC_4	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_2	IS + Cal. 5
E	IS + Cal. 5	IS + QC_2	P2021-2471-1	P2021-2527-1	IS + Cal. 5	IS + QC_2	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_4	IS + Cal. 4
F	IS + Cal. 6	Negative Blood	P2021-2472-1	P2021-2528-1	IS + Cal. 6	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_3	IS + Cal. 3
G	IS + Cal. 7	M2021-2994-1	P2021-2474-1	P2021-2529-1	IS + Cal. 7	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_2	IS + Cal. 2
H	IS + Cal. 8	M2021-3036-1	P2021-2475-1	IS + Sample	IS + Cal. 8	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + QC_1	IS + Cal. 1

All wells to contain 60 µl of Trapping Solution

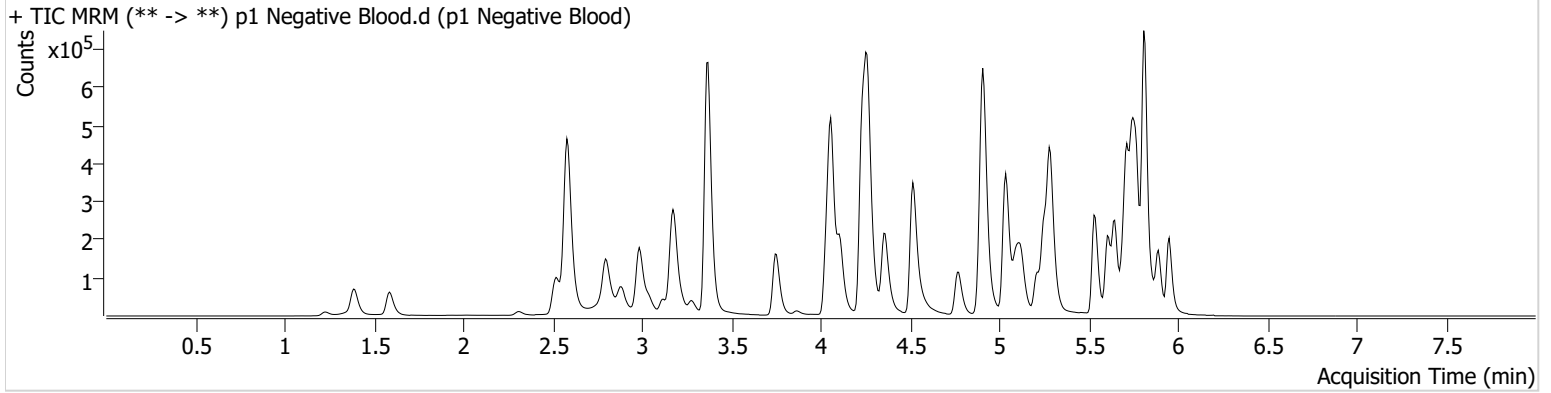


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 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>	Amber Gerheart
<b>Sample Position</b>	P6-F2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 4:17:28 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



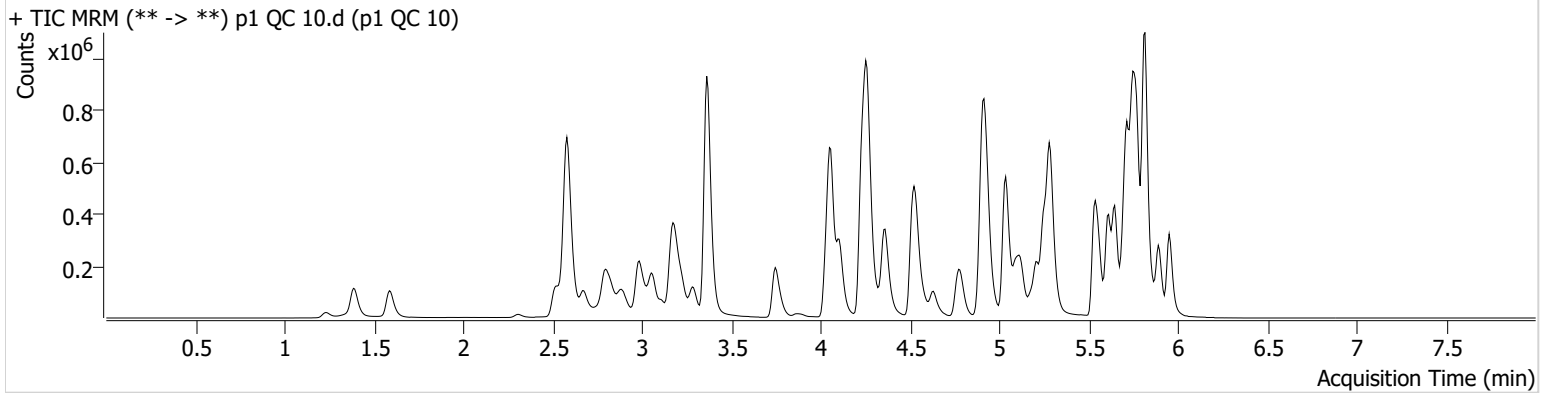


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 QC 10.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 10
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-A2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 3:03:10 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	4452	300.12	60.5	6271.36	107401	1.1547 ng/ml
7-aminoclonazepam	4.271	79365	67.50	74.4	494.46	403581	11.0821 ng/ml
a-hydroxyalprazolam	5.692	59131	130.42	59.1	303.20	579097	10.6235 ng/ml
alpha-PHP	4.937	39321	1051.70	271.2	733.73	684341	10.1223 ng/ml
alpha-PVP	4.370	175644	986.15	53.3	606.77	684341	10.4653 ng/ml
Alprazolam	5.775	183199	756.44	109.8	837.44	579097	10.4442 ng/ml
Amphetamine	3.063	257251	279.49	51.3	483.26	269970	10.9850 ng/ml
Benzoylcegonine	3.892	8282	315.21	7.3	317.79	25418	11.8468 ng/ml
Buprenorphine	5.887	2864	31.95	16.0	502.87	107003	1.0211 ng/ml
Bupropion	4.788	130520	308.54	62.2	198.31	403333	10.6481 ng/ml
Carisoprodol	5.724	178891	∞	61.5	320.28	841059	11.1832 ng/ml
Citalopram	5.212	87887	1020.10	38.5	199.80	352282	10.4986 ng/ml
Clonazepam	5.612	207438	3050.59	31.4	2590.78	233050	11.4063 ng/ml
Clonazepam	5.549	142571	15249.80	37.7	94964.72	233050	10.6663 ng/ml
Cocaine	4.264	146587	258.77	54.2	1088521.05	1187781	10.5107 ng/ml
Codeine	2.566	22895	26.37	99.0	35193.95	96243	11.2836 ng/ml
Cyclobenzaprine	5.615	75329	7324.28	9.4	306.55	282137	10.4792 ng/ml
Dextromethorphan	5.262	49922	779.04	80.5	197.03	222212	10.7854 ng/ml
Dextrophan	4.111	47468	300.90	204.5	3258.66	475401	11.0558 ng/ml
Diazepam	5.960	113580	309.24	89.3	227.64	475862	10.7955 ng/ml
Dihydrocodeine	2.545	57018	2005.13	68.8	250.45	301219	11.0249 ng/ml
Diphenhydramine	5.289	215695	153.77	32.4	1534.18	1195492	10.5901 ng/ml
Doxylamine	4.536	317742	721.35	96.1	2102.63	1256350	10.6965 ng/ml
EDDP	5.254	114306	85.15	41.4	462.92	536334	10.7413 ng/ml
Etizolam	5.813	122394	4554.76	25.7	1706.69	233050	9.9541 ng/ml
Fentanyl	5.109	9541	170.80	61.9	51928.21	441974	1.1069 ng/ml
Flualprazolam	5.705	89374	5071.37	94.9	2792.01	579097	11.1091 ng/ml
Fluoxetine	5.700	96636	262.76	7.5	128.01	327109	11.6307 ng/ml
Hydrocodone	3.012	79553	194.46	38.9	90.54	417217	11.2361 ng/ml
Hydromorphone	1.595	71246	2560.06	80.1	2006.12	219408	10.8457 ng/ml
Ketamine	4.051	160155	6698.77	34.3	139.16	705478	10.5498 ng/ml
Lamotrigine	4.280	16589	629.93	83.2	869.21	705478	10.7394 ng/ml
Levetiracetam	2.676	82323	383.31	167.3	544.62	1714483	10.7506 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	194886	1401.61	57.3	229.58	233050	11.3676 ng/ml
MDA	3.196	204049	292.25	23.7	142.22	471189	11.1243 ng/ml
MDMA	3.290	119689	1448.56	79.1	1379.76	98068	10.7492 ng/ml
Meprobamate	4.917	105505	216.47	29.0	47.32	397023	11.2944 ng/ml
Methadone	5.646	154496	5147.83	51.5	148.03	592345	10.7239 ng/ml
Methamphetamine	3.231	151592	200.97	37.4	207.63	550265	10.2803 ng/ml
Metoprolol	4.326	32790	279.83	98.0	793.39	1575871	10.5091 ng/ml
Mirtazapine	4.631	145045	2109.63	54.4	423.32	684341	8.8711 ng/ml
Mitragynine	5.237	34463	655.04	40.2	488.46	592345	10.0914 ng/ml
Morphine	1.240	9854	7802.08	44.3	337.67	8256	10.9197 ng/ml
NE Norbuprenorphine	4.986	377	20.78	92.0	173.40	14856	0.9829 ng/ml
Nordiazepam	5.900	124234	734.35	53.0	408.36	353035	10.8614 ng/ml
Norfentanyl	4.079	29033	785.46	37.2	150.14	1220966	1.0191 ng/ml
Norhydrocodone	3.059	12717	98.81	42.7	196.00	86698	11.4493 ng/ml
Noroxycodone	2.903	81476	591.03	42.6	95.70	256421	10.6013 ng/ml
O-desmethyl-tramadol	3.369	385310	11599.97	6.9	300.96	2146172	10.3960 ng/ml
Oxazepam	5.756	229797	3933.72	72.2	1740.96	902059	11.0338 ng/ml
Oxycodone	2.827	157419	383.17	27.2	322.35	645249	10.5451 ng/ml
Oxymorphone	1.391	89157	∞	43.8	704.26	272183	10.9336 ng/ml
Phentermine	3.783	54882	220.40	3.8	87.43	544429	10.9931 ng/ml
Promethazine	5.538	171409	308.55	27.6	279.87	672042	10.3582 ng/ml
Pseudoephedrine	2.589	383907	2695.86	16.1	3734.43	1714483	10.4526 ng/ml
Quetiapine	5.562	113500	2251.12	58.1	6698.14	142497	10.6101 ng/ml
Sertraline	5.776	44855	192.93	93.0	319.45	156425	10.9383 ng/ml
Temazepam	5.816	400199	5858.67	28.9	1587.00	1753026	10.9600 ng/ml
Tramadol	4.246	345276	1389.78	3.8	105.95	1575871	10.7284 ng/ml
Trazodone	5.176	125128	287.18	82.7	1209.59	403975	11.0732 ng/ml
Venlafaxine	5.037	244152	5724.39	36.0	228.44	1173919	10.3634 ng/ml
Zolpidem	4.935	386997	2282.20	30.5	588.97	1813386	10.7357 ng/ml

NE = not evaluated

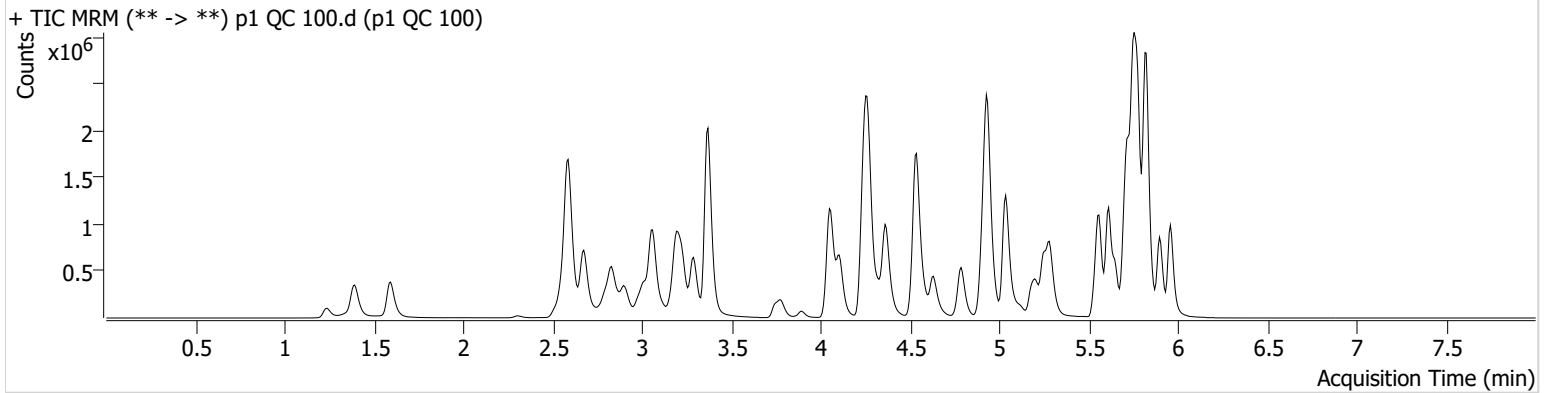


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 QC 100.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 100
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-B2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 10:39:23 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	36484	2158.42	68.1	259.68	93835	11.0579 ng/ml
7-aminoclonazepam	4.271	659501	14232.28	74.2	24514.06	338436	114.6984 ng/ml
a-hydroxyalprazolam	5.699	437206	427.84	58.7	1406.78	474907	112.6361 ng/ml
alpha-PHP	4.937	264317	1001.13	268.2	5300.74	558594	91.8318 ng/ml
alpha-PVP	4.370	1420604	1306.08	52.2	31078.10	558594	107.3585 ng/ml
Alprazolam	5.775	1517040	808.88	109.2	912.17	474907	111.8063 ng/ml
Amphetamine	3.063	1771714	9400.99	51.2	2984.63	193628	115.7582 ng/ml
Benzoylecgonine	3.892	76669	6759.71	7.4	21587.05	24373	121.0567 ng/ml
Buprenorphine	5.894	10045	18324.21	14.0	1671.83	37918	10.9766 ng/ml
Bupropion	4.788	838360	26169.32	61.2	505.85	266720	107.9219 ng/ml
Carisoprodol	5.724	1341307	1116766.38	61.6	6810.63	616936	101.1333 ng/ml
Citalopram	5.212	350976	456.52	39.1	1084.67	142358	107.9117 ng/ml
Clonazepam	5.612	1672456	7037.90	31.4	923993.70	191210	123.9625 ng/ml
Clonazepam	5.548	1204938	3265891.01	38.1	1169571.07	191210	119.5138 ng/ml
Cocaine	4.257	1251387	416.68	52.6	1823.25	988091	112.9598 ng/ml
Codeine	2.573	180686	7794.49	98.9	∞	78630	119.8717 ng/ml
Cyclobenzaprine	5.615	176581	338.83	9.6	429.64	69782	102.9384 ng/ml
Dextromethorphan	5.255	164425	1297.48	81.2	517.18	74829	110.9096 ng/ml
Dextrophan	4.111	350143	11271.90	200.3	15869.56	356513	112.8026 ng/ml
Diazepam	5.960	943895	3886.72	87.9	1250.16	398272	116.2103 ng/ml
Dihydrocodeine	2.545	475254	176120.01	71.3	827.45	263433	115.4344 ng/ml
Diphenhydramine	5.289	838873	6390.92	33.8	8540.18	476767	107.3547 ng/ml
Doxylamine	4.536	2506263	108619.95	97.3	106637.29	1021491	109.2146 ng/ml
EDDP	5.248	670095	623.98	41.5	149346.89	321560	108.8949 ng/ml
Etizolam	5.820	995002	9674.18	25.3	2604.59	191210	96.2705 ng/ml
Fentanyl	5.109	23441	90.12	65.9	22434.96	117326	10.7226 ng/ml
Flualprazolam	5.705	693207	10606.74	99.3	69971.86	474907	114.2281 ng/ml
Fluoxetine	5.707	190158	25676.87	8.2	15019.54	74881	106.0064 ng/ml
Hydrocodone	3.012	659415	∞	41.0	95.43	355039	118.4816 ng/ml
Hydromorphone	1.595	610783	4151853.58	79.9	2026874.38	190382	113.9687 ng/ml
Ketamine	4.051	1365029	19137.12	35.8	1046.24	593976	114.7622 ng/ml
Lamotrigine	4.273	139388	2549.37	80.5	863.05	593976	122.9266 ng/ml
Levetiracetam	2.676	745251	3240.98	165.0	14622.94	1411959	118.0434 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	1274899	3154.33	57.5	1418.55	191210	103.6665 ng/ml
MDA	3.196	1468171	5921.75	23.8	855.26	341136	121.4937 ng/ml
MDMA	3.290	953307	48573.00	75.9	2590.65	77183	113.6927 ng/ml
Meprobamate	4.917	805013	32333.35	29.0	3524.04	344809	113.2195 ng/ml
Methadone	5.653	483546	542.87	52.4	1811.99	193739	104.6774 ng/ml
Methamphetamine	3.231	954007	1142.73	37.5	1269.08	370285	108.7308 ng/ml
Metoprolol	4.326	277028	338842.35	92.7	2062.72	1372749	109.3508 ng/ml
Mirtazapine	4.631	666699	628.84	55.0	23583.01	558594	50.5968 ng/ml
Mitragynine	5.237	99547	108811.07	39.8	48433.31	193739	102.2440 ng/ml
Morphine	1.240	84744	1515.22	43.1	340.24	7569	109.4559 ng/ml
NE Norbuprenorphine	4.986	1157	19.05	133.2 High	394.77	5444	9.9904 ng/ml
Nordiazepam	5.900	984801	2055.29	55.8	1544.64	289196	112.4528 ng/ml
Norfentanyl	4.079	248081	334.57	35.1	804.37	1029246	10.1619 ng/ml
Norhydrocodone	3.059	88399	212.64	43.2	122.09	62670	99.8386 ng/ml
Noroxycodone	2.903	666305	2765.13	42.6	8396.36	212944	112.4747 ng/ml
O-desmethyl-tramadol	3.369	3506106	113029.32	6.8	3561.64	1888567	111.6761 ng/ml
Oxazepam	5.756	1639851	692.12	72.6	14180.64	646376	118.8583 ng/ml
Oxycodone	2.827	1404882	1846.17	27.6	692.02	568165	113.8164 ng/ml
Oxymorphone	1.391	748017	∞	43.1	∞	226939	117.3214 ng/ml
Phentermine	3.783	394434	3418.57	3.7	298.66	411681	115.9915 ng/ml
Promethazine	5.538	410306	931.72	28.7	844.42	163535	105.8059 ng/ml
Pseudoephedrine	2.589	3168551	55473.73	16.3	13205.60	1411959	105.3846 ng/ml
Quetiapine	5.562	523706	478.21	57.1	263193.11	63416	113.9335 ng/ml
Sertraline	5.776	93973	263.87	95.6	550.56	35615	106.5159 ng/ml
Temazepam	5.823	3023863	31776.32	29.1	450.77	1301937	104.4865 ng/ml
Tramadol	4.246	2961528	3107.33	3.6	1395.70	1372749	113.1332 ng/ml
Trazodone	5.183	506736	6256.00	82.6	720329.73	166586	118.4975 ng/ml
Venlafaxine	5.037	1957807	31856.89	36.0	1014.34	935587	107.5764 ng/ml
Zolpidem	4.935	3298006	4398836.04	30.8	4394.75	1580022	114.2097 ng/ml

NE = not evaluated



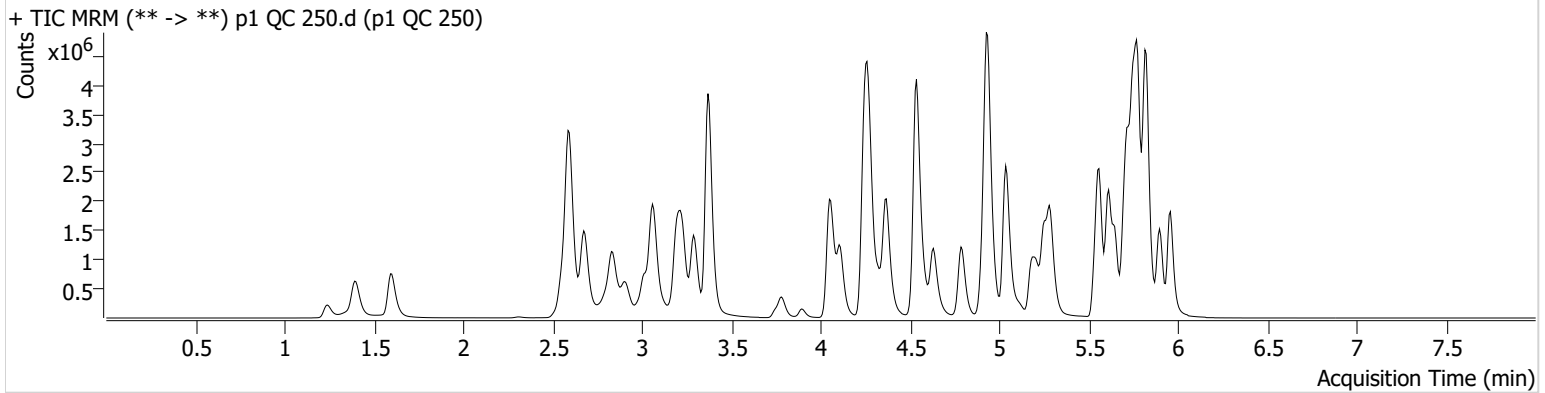


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 QC 250.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 250
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-C2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 3:24:24 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	89759	436.12	69.3	1374.86	93477	27.3490 ng/ml
7-aminoclonazepam	4.271	1342072	1178.60	75.6	82058.82	284773	278.1700 ng/ml
a-hydroxyalprazolam	5.692	725980	4413.60	56.9	980.51	400887	223.5997 ng/ml
alpha-PHP	4.937	575496	4662.00	269.1	39974.77	516348	217.8913 ng/ml
alpha-PVP	4.370	3306532	112909.92	52.6	119287.07	516348	270.9511 ng/ml
Alprazolam	5.775	3209617	1448.75	110.6	∞	400887	281.2773 ng/ml
Amphetamine	3.063	3823807	2396.14	51.4	3957.66	184091	264.2957 ng/ml
Benzoylcegonine	3.892	173215	7225.57	8.0	1384.21	23452	285.2746 ng/ml
Buprenorphine	5.887	27806	50572.31	14.2	5281.09	44814	25.8411 ng/ml
Bupropion	4.788	2045838	32277.06	61.2	18369.48	255418	275.8117 ng/ml
Carisoprodol	5.724	2514681	90475.25	59.9	5369.12	452367	256.3570 ng/ml
Citalopram	5.212	985913	8686.51	39.0	959.06	156697	276.1186 ng/ml
Clonazepam	5.612	3250213	73347.80	31.4	48391.40	160932	287.9913 ng/ml
Clonazepam	5.548	2539067	83651.41	37.5	1511103.40	160932	300.7820 ng/ml
Cocaine	4.264	2795560	98684.32	53.0	589.50	910773	274.5547 ng/ml
Codeine	2.573	363213	86.17	99.5	744.56	73855	257.9772 ng/ml
Cyclobenzaprine	5.615	598340	372.18	8.8	2003.93	91666	266.2055 ng/ml
Dextromethorphan	5.262	474898	529.09	80.4	571.89	85896	279.9966 ng/ml
Dextrophan	4.111	790032	2020.05	204.3	34261.80	324866	279.9898 ng/ml
Diazepam	5.960	2040026	9023.86	88.6	45084.93	353081	284.7623 ng/ml
Dihydrocodeine	2.552	1080963	576.22	69.9	278.84	260433	267.1586 ng/ml
Diphenhydramine	5.289	2389149	23409.57	33.8	12484.80	549472	265.9801 ng/ml
Doxylamine	4.536	6171418	117545.30	95.7	241182.31	996052	276.7528 ng/ml
EDDP	5.254	1773793	64845.44	41.4	110881.15	342463	271.3137 ng/ml
Etizolam	5.813	2159055	10173.66	25.4	16580.01	160932	247.7813 ng/ml
Fentanyl	5.109	78388	88.31	63.5	170.42	154421	27.3327 ng/ml
Flualprazolam	5.705	1437524	7757.05	99.0	109221.30	400887	282.1935 ng/ml
Fluoxetine	5.707	476287	7529.36	8.4	547.20	72751	274.5391 ng/ml
Hydrocodone	3.012	1458958	∞	42.7	294.97	343720	272.1018 ng/ml
Hydromorphone	1.601	1366337	1727.70	79.8	16160.55	175740	277.2835 ng/ml
Ketamine	4.051	3298801	35260.36	35.1	1503.81	600031	275.7572 ng/ml
Lamotrigine	4.280	291413	7315.61	82.2	3602.10	600031	256.2799 ng/ml
Levetiracetam	2.676	1589904	2280.41	165.8	8692.42	1288041	276.0416 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* Lorazepam	<del>5.747</del>	<del>1724642</del>	<del>22479.21</del>	<del>58.6</del>	<del>516.01</del>	<del>160932</del>	<del>167.7556 ng/ml</del>
MDA	3.196	3063621	12620.10	23.6	584.18	313381	277.5289 ng/ml
MDMA	3.290	2142976	83021.19	78.4	8475.98	72355	273.3807 ng/ml
Meprobamate	4.917	1445488	83897.89	28.8	492.55	291640	242.3795 ng/ml
Methadone	5.646	1491738	3019.45	50.7	1141.53	239605	261.4723 ng/ml
Methamphetamine	3.231	2236863	1523.59	36.4	8957.09	356941	266.6310 ng/ml
Metoprolol	4.326	616087	646812.67	95.4	6704.72	1257461	266.7015 ng/ml
Mirtazapine	4.631	1905623	16505.04	53.8	34284.14	516348	156.7430 ng/ml
Mitragynine	5.237	332480	3043.69	39.0	148302.69	239605	278.9692 ng/ml
Morphine	1.240	198933	538.81	43.6	109.07	7098	275.2658 ng/ml
NE Norbuprenorphine	<del>4.986</del>	<del>3696</del>	<del>2031.26</del>	<del>91.5</del>	<del>982.65</del>	<del>6068</del>	<del>29.0880 ng/ml</del>
Nordiazepam	5.900	2052763	∞	53.6	662.62	241237	282.2710 ng/ml
Norfentanyl	4.079	588709	5632.24	34.7	3905.74	941630	26.3291 ng/ml
Norhydrocodone	3.059	187671	181.66	43.0	142.72	50579	260.6844 ng/ml
Noroxycodone	2.903	1338299	948.12	43.5	274.19	175705	275.0986 ng/ml
O-desmethyl-tramadol	3.369	8367180	84612.13	6.5	24941.06	1761925	286.3627 ng/ml
Oxazepam	5.756	2596063	17755.27	71.5	7932.97	428667	285.1197 ng/ml
Oxycodone	2.827	3302780	1292.21	27.5	1422.20	554779	275.0997 ng/ml
Oxymorphone	1.391	1546825	∞	43.6	561.03	205981	268.3234 ng/ml
Phentermine	3.783	893423	394.98	3.8	397.43	384173	283.4729 ng/ml
Promethazine	5.538	1372892	3084.50	28.0	5099.87	215663	269.1362 ng/ml
Pseudoephedrine	2.596	7328470	101444.95	15.9	58294.86	1288041	267.2987 ng/ml
Quetiapine	5.562	1479275	134864.56	58.8	17642.47	76216	268.3366 ng/ml
Sertraline	5.776	237490	986.34	96.2	16033.96	36445	264.1114 ng/ml
Temazepam	5.823	5648988	67137.17	27.7	14858.63	986500	256.4883 ng/ml
Tramadol	4.246	6900475	126919.96	3.5	4804.17	1257461	289.0808 ng/ml
Trazodone	5.183	1507254	567.07	83.0	35959.35	201807	292.5572 ng/ml
Venlafaxine	5.037	4693077	811.23	34.6	454.67	888162	272.1982 ng/ml
Zolpidem	4.935	8109637	16131.90	29.1	10206.51	1542914	289.1822 ng/ml

NE = not evaluated

\*Outside curve range

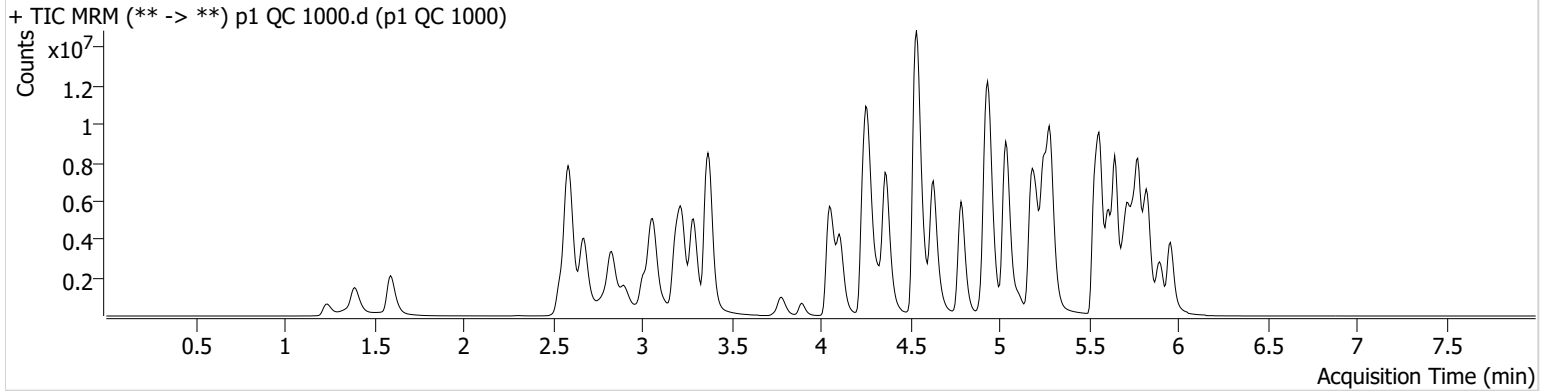


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 QC 1000.d
<b>Type</b>	QC	<b>Sample</b>	p1 QC 1000
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-D2	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 3:45:37 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	353710	1484.55	68.7	4429.85	86053	117.1608 ng/ml
7-aminoclonazepam	4.278	2195726	64128.55	80.7	66581.33	118699	1093.4606 ng/ml
* a-hydroxyalprazolam	<del>5.685</del>	<del>1046522</del>	<del>805.97</del>	<del>56.5</del>	<del>1507.29</del>	<del>229268</del>	<del>566.7998 ng/ml</del>
* alpha-PHP	<del>4.937</del>	<del>2017702</del>	<del>24122.93</del>	<del>270.1</del>	<del>6410.47</del>	<del>499157</del>	<del>793.3171 ng/ml</del>
alpha-PVP	4.370	13605149	17091.49	51.8	78888.70	499157	1154.5977 ng/ml
Alprazolam	5.775	7174802	∞	110.8	∞	229268	1101.4639 ng/ml
* Amphetamine	<del>3.063</del>	<del>11538620</del>	<del>94223.12</del>	<del>48.6</del>	<del>40449.90</del>	<del>167199</del>	<del>880.8815 ng/ml</del>
Benzoylcegonine	3.892	774668	1214.08	7.9	294.43	23188	1293.0763 ng/ml
Buprenorphine	5.887	181524	159760.62	14.8	39674.39	78785	96.2226 ng/ml
Bupropion	4.788	10545121	18381.49	60.8	35093.63	321118	1132.3833 ng/ml
Carisoprodol	5.724	4152619	31455019.50	58.5	∞	170237	1120.0747 ng/ml
Citalopram	5.212	5734019	1098.14	38.6	117467.16	220769	1141.2942 ng/ml
Clonazepam	5.612	5539226	121709.72	30.7	14024.70	80198	988.1617 ng/ml
Clonazepam	5.548	4066334	610104.13	38.0	2985329.51	80198	968.9214 ng/ml
Cocaine	4.264	9694690	1451.06	52.2	1048.48	750314	1157.5099 ng/ml
* Codeine	<del>2.566</del>	<del>878495</del>	<del>894.29</del>	<del>95.6</del>	<del>261.38</del>	<del>56457</del>	<del>818.9594 ng/ml</del>
Cyclobenzaprine	5.615	4936605	401328.77	8.7	10034.81	169494	1189.2967 ng/ml
Dextromethorphan	5.262	2603825	3337.93	79.4	139306.82	117956	1119.7881 ng/ml
Dextrophan	4.111	3122953	2253.12	208.1	27066.45	311604	1155.3211 ng/ml
Diazepam	5.960	5244786	5681.80	87.7	∞	234121	1107.0052 ng/ml
* Dihydrocodeine	<del>2.538</del>	<del>3163617</del>	<del>22612.72</del>	<del>70.8</del>	<del>1612.75</del>	<del>255157</del>	<del>800.4657 ng/ml</del>
Diphenhydramine	5.289	14727616	208154.92	32.9	47104.04	778372	1158.9980 ng/ml
Doxylamine	4.542	26715088	344663.01	96.2	273736.73	1156600	1033.4288 ng/ml
EDDP	5.254	10226647	4674.06	40.1	49207.50	455629	1177.1898 ng/ml
Etizolam	5.813	5472854	48697.45	24.6	953241.49	80198	1259.2839 ng/ml
Fentanyl	5.109	690492	312.03	64.3	39997.19	326353	114.1057 ng/ml
Flualprazolam	5.705	2848464	41025.80	105.9	50968.76	229268	980.4036 ng/ml
Fluoxetine	5.707	2506060	6852.77	8.5	9454.79	101543	1037.1330 ng/ml
Hydrocodone	3.005	4960135	560.78	42.3	1254.25	319268	998.6855 ng/ml
Hydromorphone	1.595	4384843	18540451.12	80.3	5452349.98	141055	1110.9703 ng/ml
Ketamine	4.051	12105225	275214.23	33.3	1488.64	567271	1072.8674 ng/ml
* Lamotrigine	<del>4.287</del>	<del>639938</del>	<del>333.52</del>	<del>82.2</del>	<del>1097.85</del>	<del>567271</del>	<del>597.6072 ng/ml</del>
Levetiracetam	2.676	4427809	13992.03	168.6	17237.35	898090	1102.5202 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
* Lorazepam	<del>5.747</del>	<del>1832683</del>	<del>84701.45</del>	<del>58.1</del>	<del>9845.84</del>	<del>80198</del>	<del>359.8360 ng/ml</del>
MDA	3.189	8535975	28452.34	22.7	2349.81	265597	915.1801 ng/ml
MDMA	3.290	8178268	5033.22	80.5	3122.70	70755	1068.4645 ng/ml
* Meprobamate	<del>4.911</del>	<del>2301591</del>	<del>40922.32</del>	<del>28.5</del>	<del>7079.83</del>	<del>204146</del>	<del>553.6275 ng/ml</del>
Methadone	5.646	11030451	2012625.68	50.8	102842.23	401362	1155.0348 ng/ml
Methamphetamine	3.224	9073060	64386.67	35.4	23535.04	394415	982.7665 ng/ml
Metoprolol	4.326	1991261	2806071.57	94.9	11983.55	1097021	990.3878 ng/ml
Mirtazapine	4.631	12424487	13864.81	51.8	3770.93	499157	1057.9420 ng/ml
Mitragynine	5.237	2152356	14697.56	39.2	492.23	401362	1082.9139 ng/ml
Morphine	1.240	650233	1938.60	39.3	∞	6076	1053.3861 ng/ml
NE Norbuprenorphine	<del>4.986</del>	<del>22438</del>	<del>42573.49</del>	<del>102.4</del>	<del>60716.14</del>	<del>10166</del>	<del>106.0384 ng/ml</del>
Nordiazepam	5.900	4325719	670.95	54.5	17560.64	134536	1068.9320 ng/ml
Norfentanyl	4.079	2127143	84669.79	34.2	9816.16	686016	130.5075 ng/ml
Norhydrocodone	3.053	634755	130.24	43.4	169.30	37215	1194.0610 ng/ml
Noroxycodone	2.903	3334346	845.95	42.9	985.30	109953	1097.9993 ng/ml
O-desmethyl-tramadol	3.369	24900595	1234.76	7.0	36179.45	1396360	1076.5502 ng/ml
Oxazepam	5.749	2569443	11676.11	72.4	8803.97	118576	1022.7572 ng/ml
Oxycodone	2.827	11565315	2856.01	27.0	1777.46	508457	1053.2182 ng/ml
Oxymorphone	1.391	4583123	819.32	43.3	294.27	155085	1058.2951 ng/ml
Phentermine	3.783	2996119	∞	3.9	3184.01	399094	918.1075 ng/ml
Promethazine	5.532	12183657	218246.44	27.2	108269.68	450231	1145.5147 ng/ml
Pseudoephedrine	2.589	22795610	9798.27	15.2	286836.17	898090	1192.7035 ng/ml
Quetiapine	5.562	9296524	322168.33	59.5	1042.60	113805	1130.7205 ng/ml
Sertraline	5.776	1287813	35524.34	97.9	14990.63	47581	1099.2477 ng/ml
Temazepam	5.830	8832318	16954.02	27.0	5877.43	335650	1175.8914 ng/ml
Tramadol	4.239	20944863	1728.81	3.6	1521.37	1097021	1007.8682 ng/ml
Trazodone	5.176	11528566	671690.90	81.6	387928.84	408081	1109.6742 ng/ml
Venlafaxine	5.037	19698076	115367.92	35.2	3328.85	875892	1159.6797 ng/ml
Zolpidem	4.935	25201418	590377.74	30.8	190188.82	1436283	967.8282 ng/ml

NE = not evaluated

\*Outside curve range

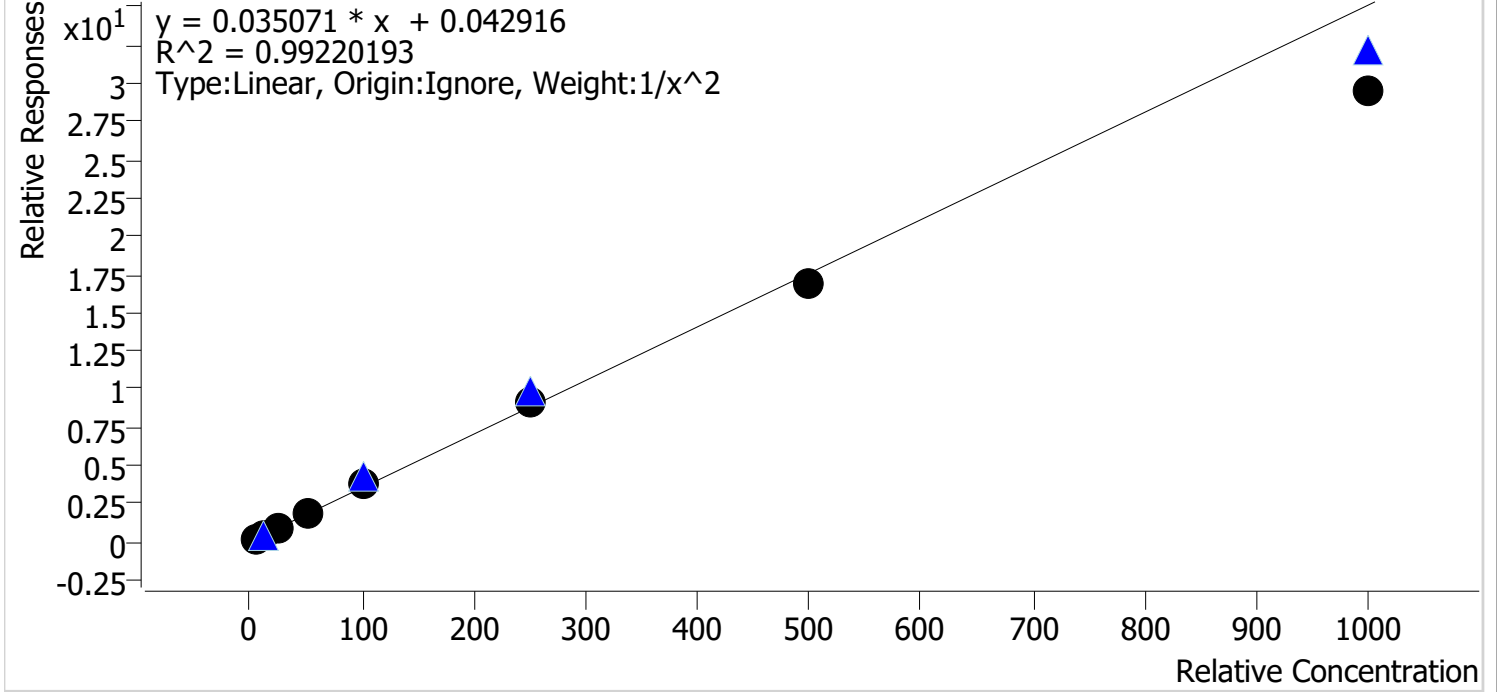
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** MDA **Internal Standard** MDA-D5

MDA - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



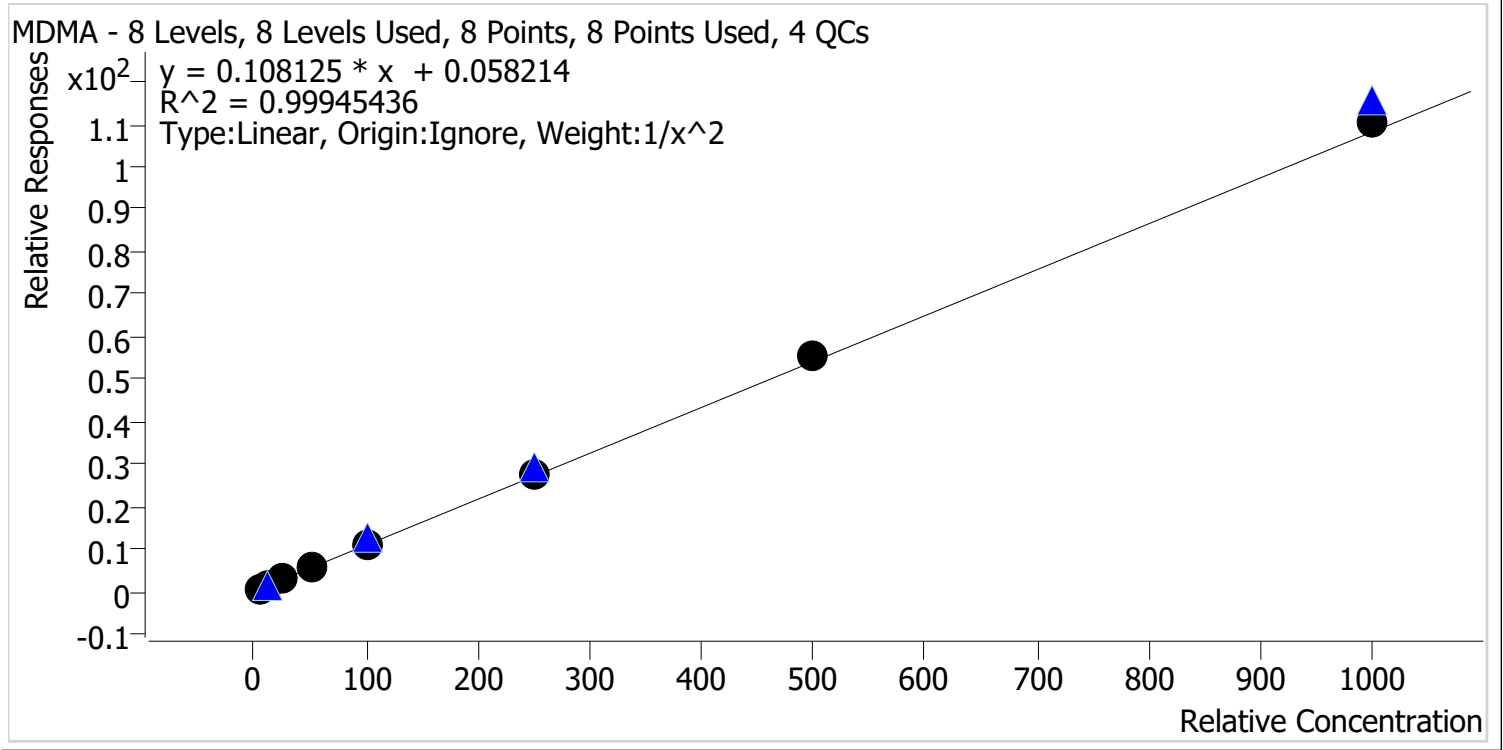
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.7
p1 Cal 2-10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	26.2	104.7
p1 Cal 4-50ng	4	✓	50.0	53.2	106.4
p1 Cal 5-100ng	5	✓	100.0	106.5	106.5
p1 Cal 6-250ng	6	✓	250.0	258.1	103.2
p1 Cal 7-500ng	7	✓	500.0	478.6	95.7
p1 Cal 8-1000ng	8	✓	1000.0	838.4	83.8

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** MDMA **Internal Standard** MDMA-D6



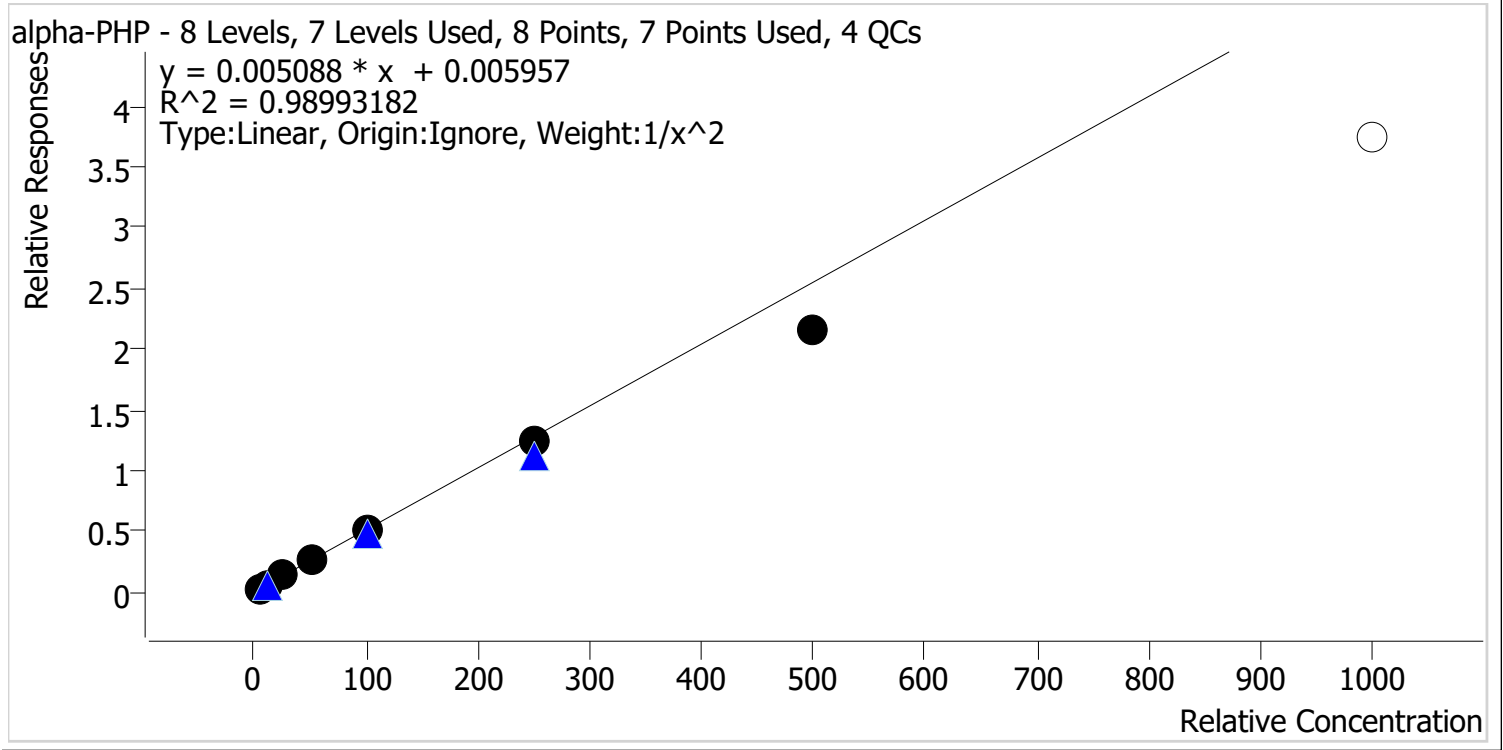
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.7
p1 Cal 2-10ng	2	✓	10.0	9.8	97.5
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.7
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	97.9	97.9
p1 Cal 6-250ng	6	✓	250.0	251.0	100.4
p1 Cal 7-500ng	7	✓	500.0	514.1	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1021.0	102.1

AK



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** alpha-PHP **Internal Standard** alpha-PVP-d8



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	93.9
p1 Cal 2-10ng	2	✓	10.0	10.8	108.1
p1 Cal 3 -25ng	3	✓	25.0	27.0	107.9
p1 Cal 4-50ng	4	✓	50.0	53.1	106.2
p1 Cal 5-100ng	5	✓	100.0	101.0	101.0
p1 Cal 6-250ng	6	✓	250.0	244.9	98.0
p1 Cal 7-500ng	7	✓	500.0	424.7	84.9
p1 Cal 8-1000ng	8	x	1000.0	734.3	73.4

\*Cal 8 dropped due to accuracy

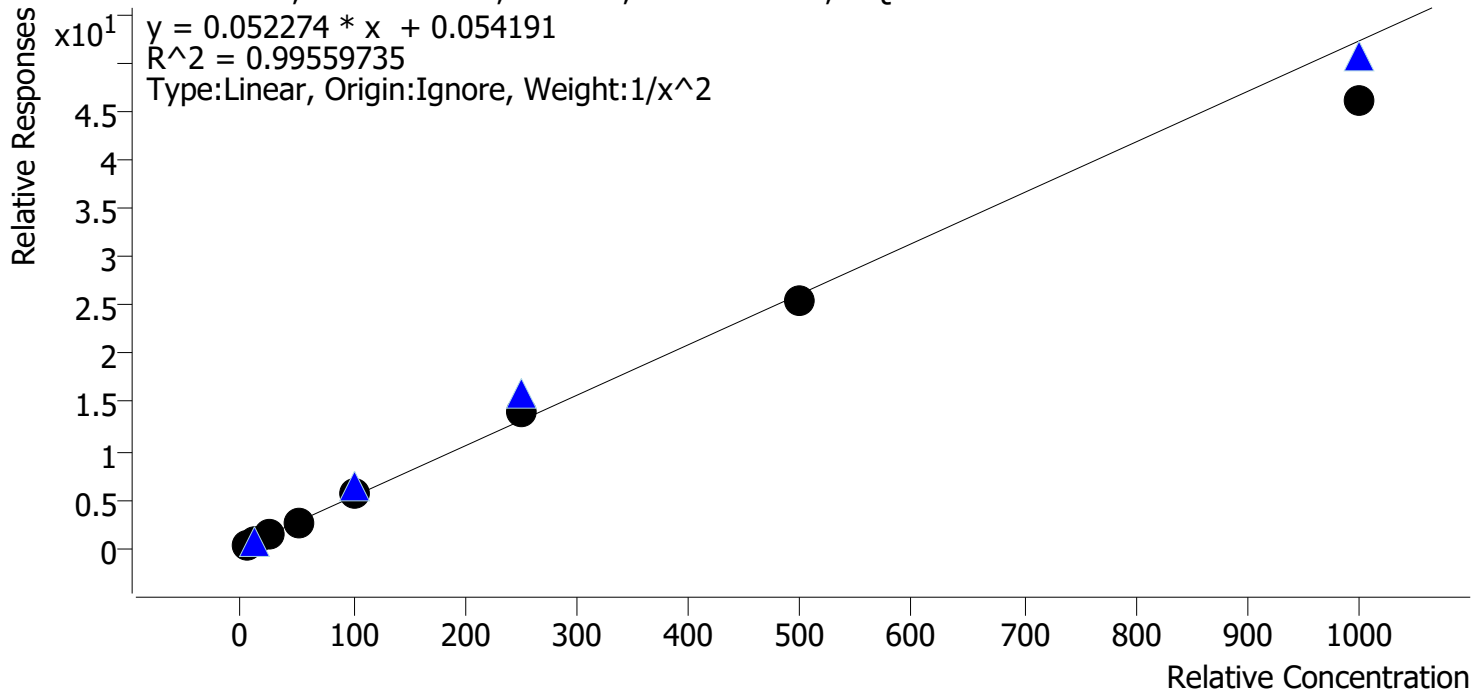
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Clonazolam **Internal Standard** Clonazepam-D4

Clonazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.1
p1 Cal 2-10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.7
p1 Cal 4-50ng	4	✓	50.0	50.9	101.9
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	269.6	107.8
p1 Cal 7-500ng	7	✓	500.0	487.1	97.4
p1 Cal 8-1000ng	8	✓	1000.0	883.7	88.4

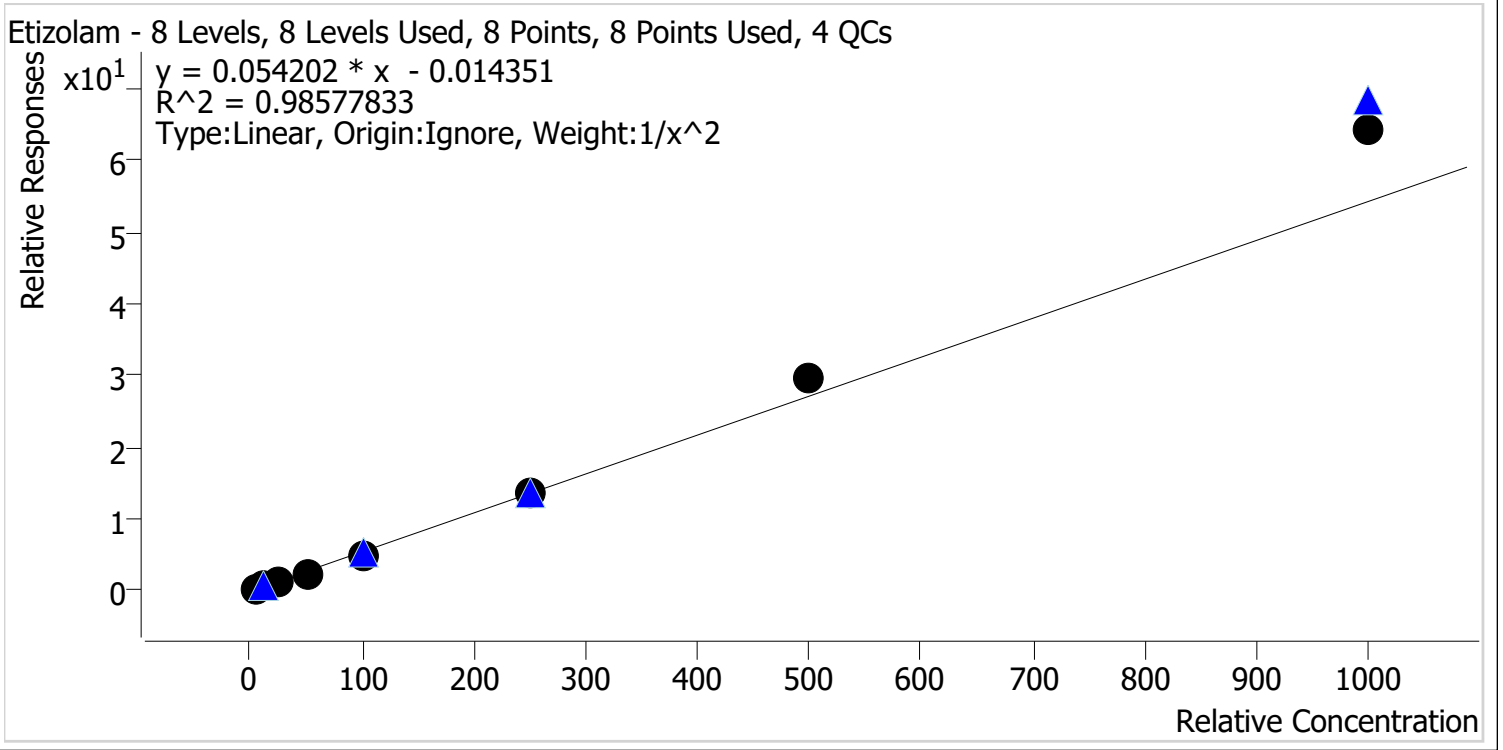


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Etizolam **Internal Standard** Clonazepam-D4



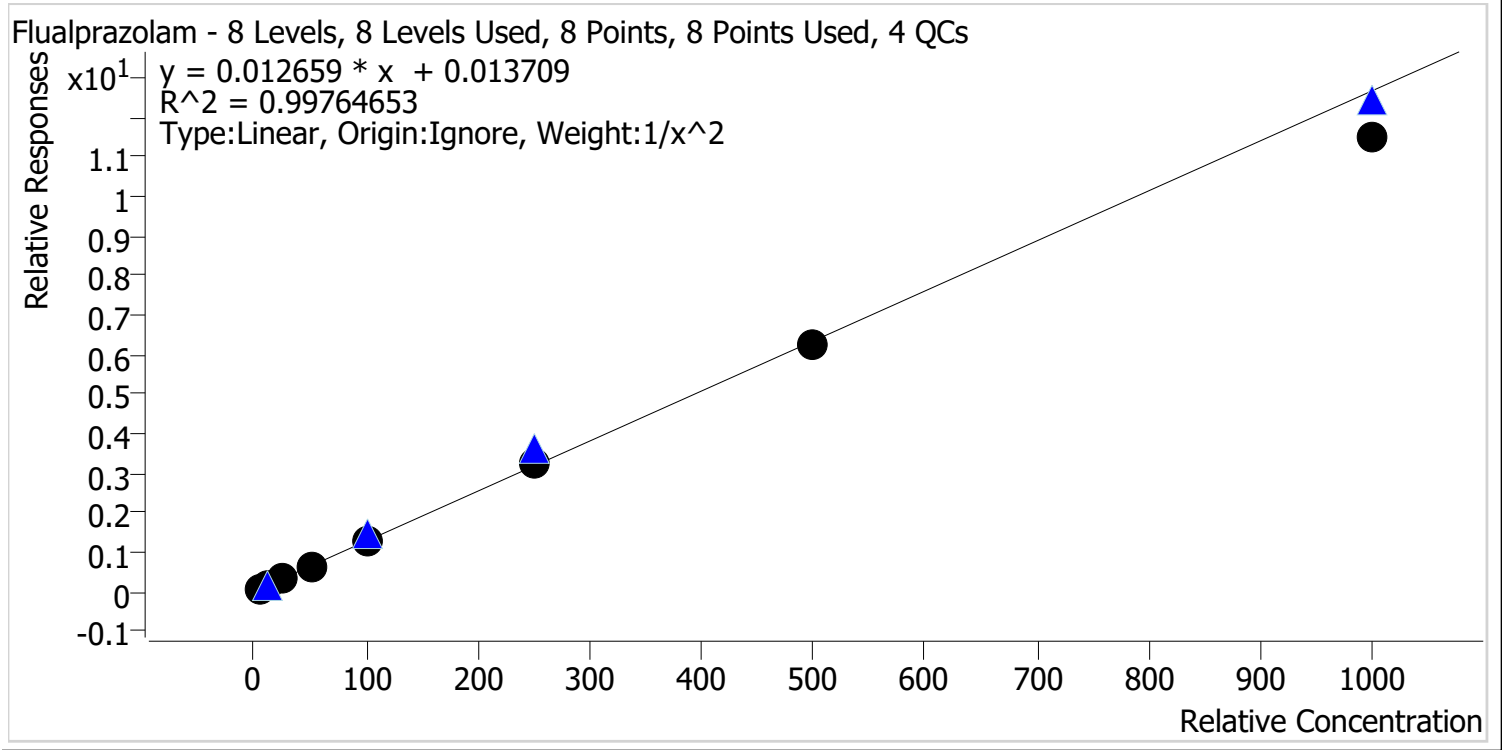
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	104.3
p1 Cal 2-10ng	2	✓	10.0	9.8	98.5
p1 Cal 3 -25ng	3	✓	25.0	22.1	88.4
p1 Cal 4-50ng	4	✓	50.0	45.0	90.1
p1 Cal 5-100ng	5	✓	100.0	91.3	91.3
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	546.3	109.3
p1 Cal 8-1000ng	8	✓	1000.0	1186.0	118.6

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Flualprazolam **Internal Standard** Alprazolam-D5



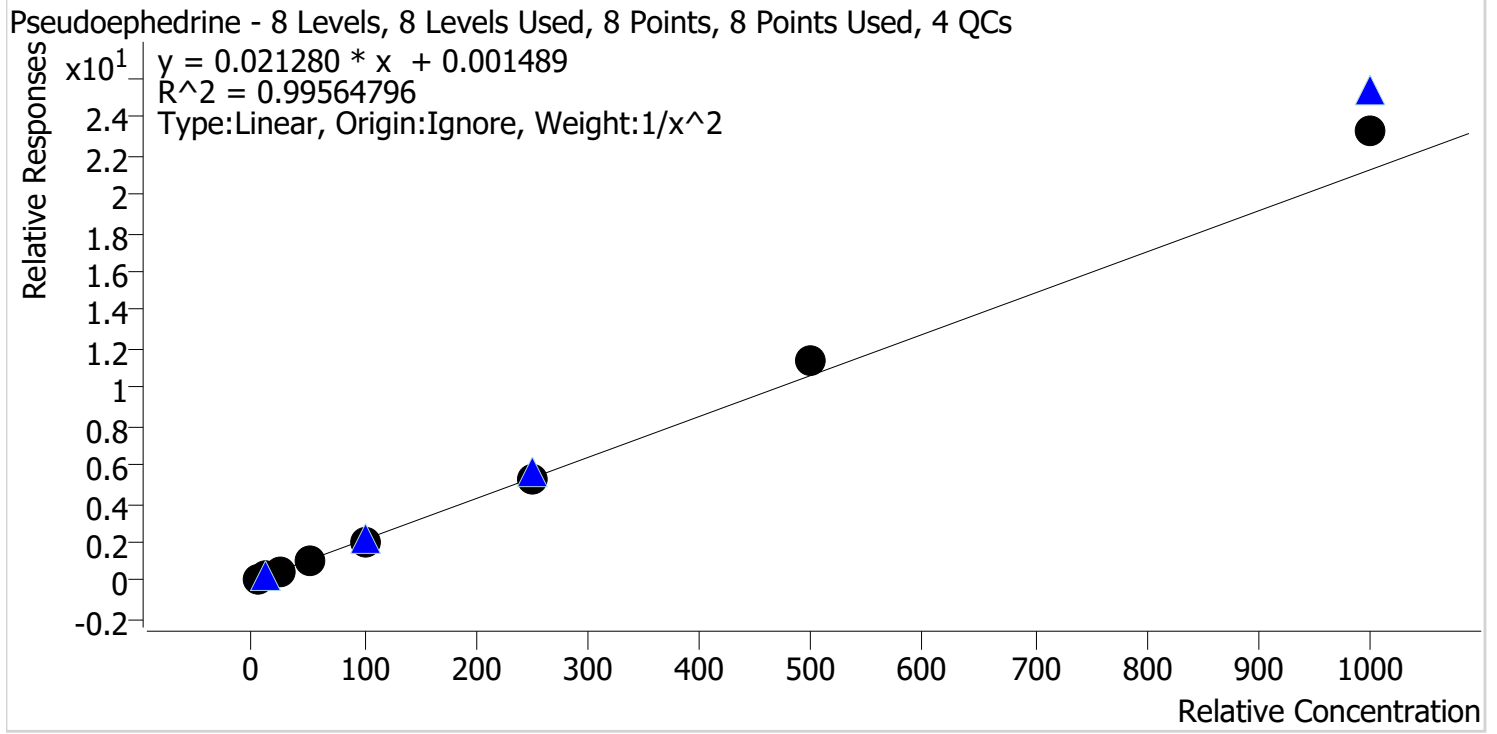
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2-10ng	2	✓	10.0	10.3	103.0
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.1
p1 Cal 4-50ng	4	✓	50.0	51.0	102.1
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	256.2	102.5
p1 Cal 7-500ng	7	✓	500.0	495.6	99.1
p1 Cal 8-1000ng	8	✓	1000.0	907.5	90.7

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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Pseudoephedrine **Internal Standard** Pseudoephedrine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.6
p1 Cal 2-10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	23.3	93.4
p1 Cal 4-50ng	4	✓	50.0	47.2	94.4
p1 Cal 5-100ng	5	✓	100.0	95.7	95.7
p1 Cal 6-250ng	6	✓	250.0	248.2	99.3
p1 Cal 7-500ng	7	✓	500.0	533.6	106.7
p1 Cal 8-1000ng	8	✓	1000.0	1091.1	109.1

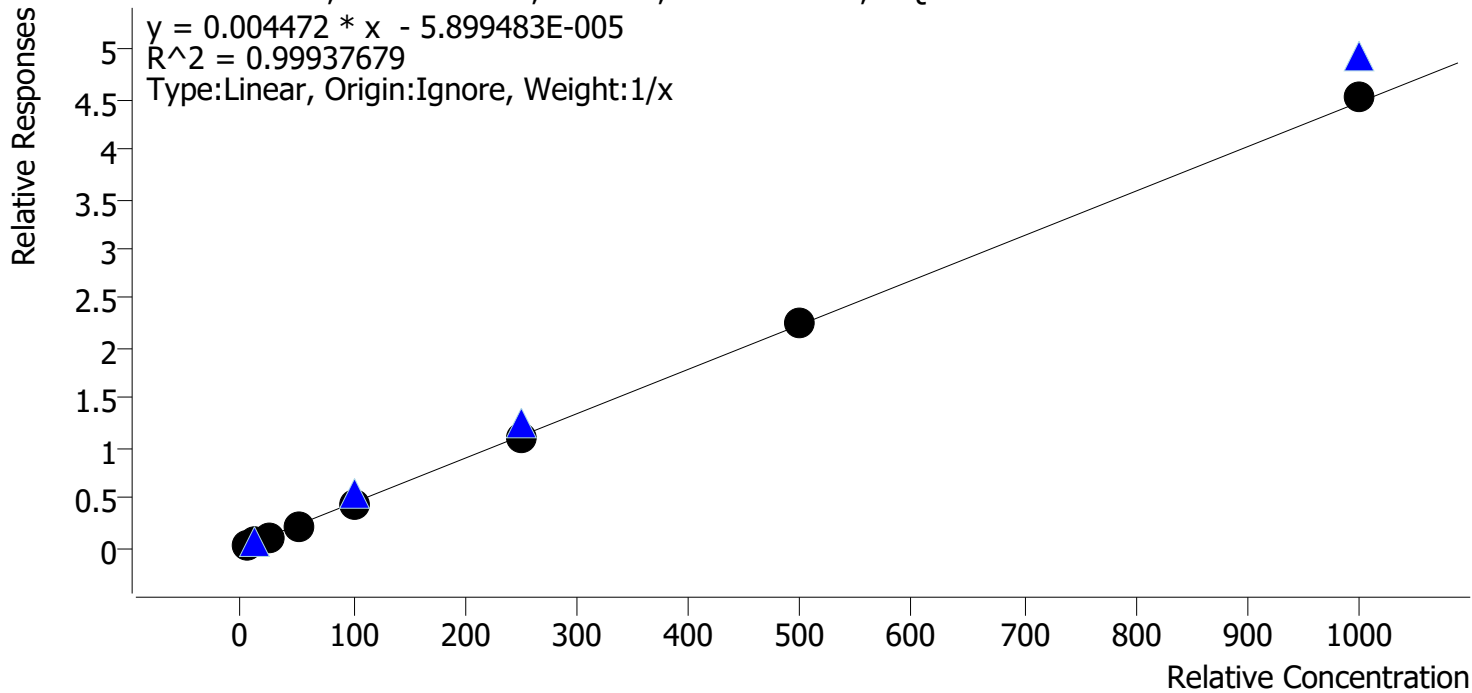
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Levetiracetam **Internal Standard** Pseudoephedrine-D3

Levetiracetam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.7	114.7
p1 Cal 2-10ng	2	✓	10.0	10.1	101.5
p1 Cal 3 -25ng	3	✓	25.0	23.3	93.3
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	92.2	92.2
p1 Cal 6-250ng	6	✓	250.0	244.5	97.8
p1 Cal 7-500ng	7	✓	500.0	504.8	101.0
p1 Cal 8-1000ng	8	✓	1000.0	1010.0	101.0

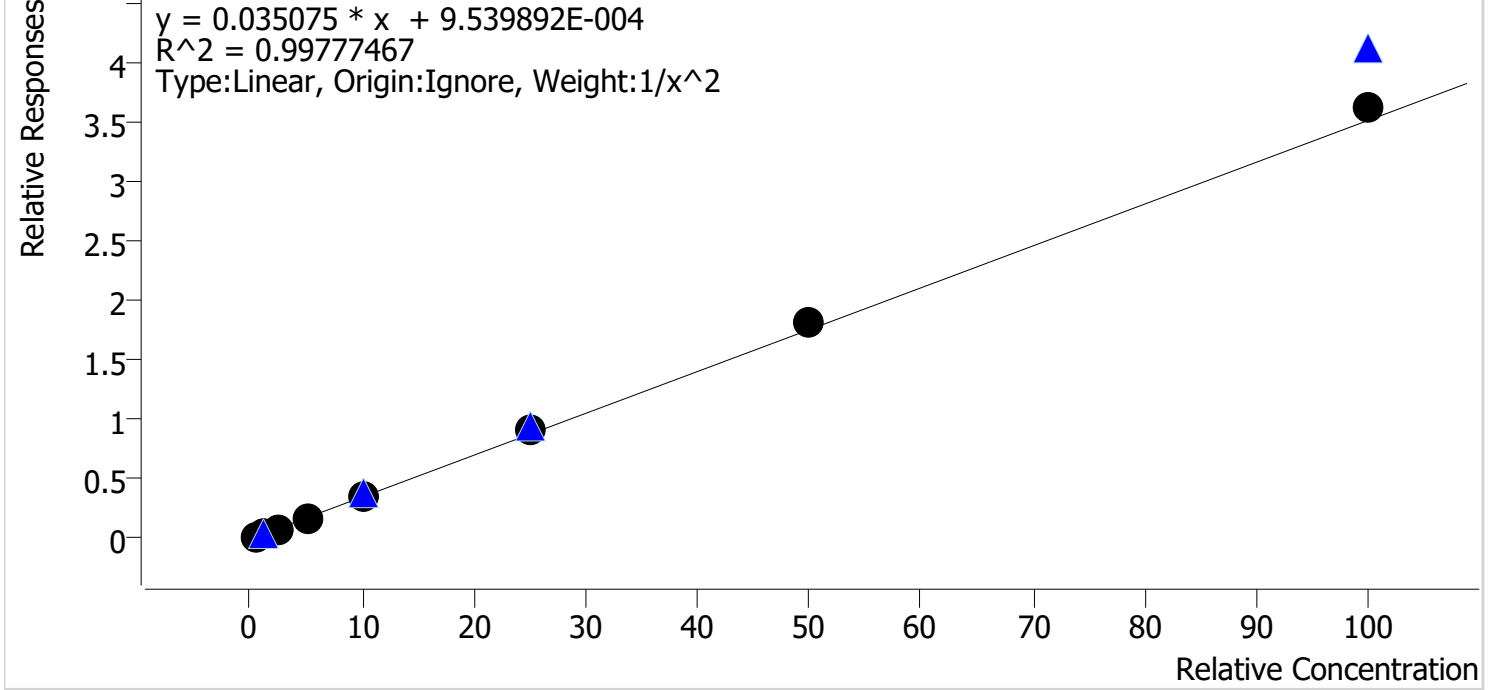
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** 6-MAM **Internal Standard** 6-MAM-D6

6-MAM - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



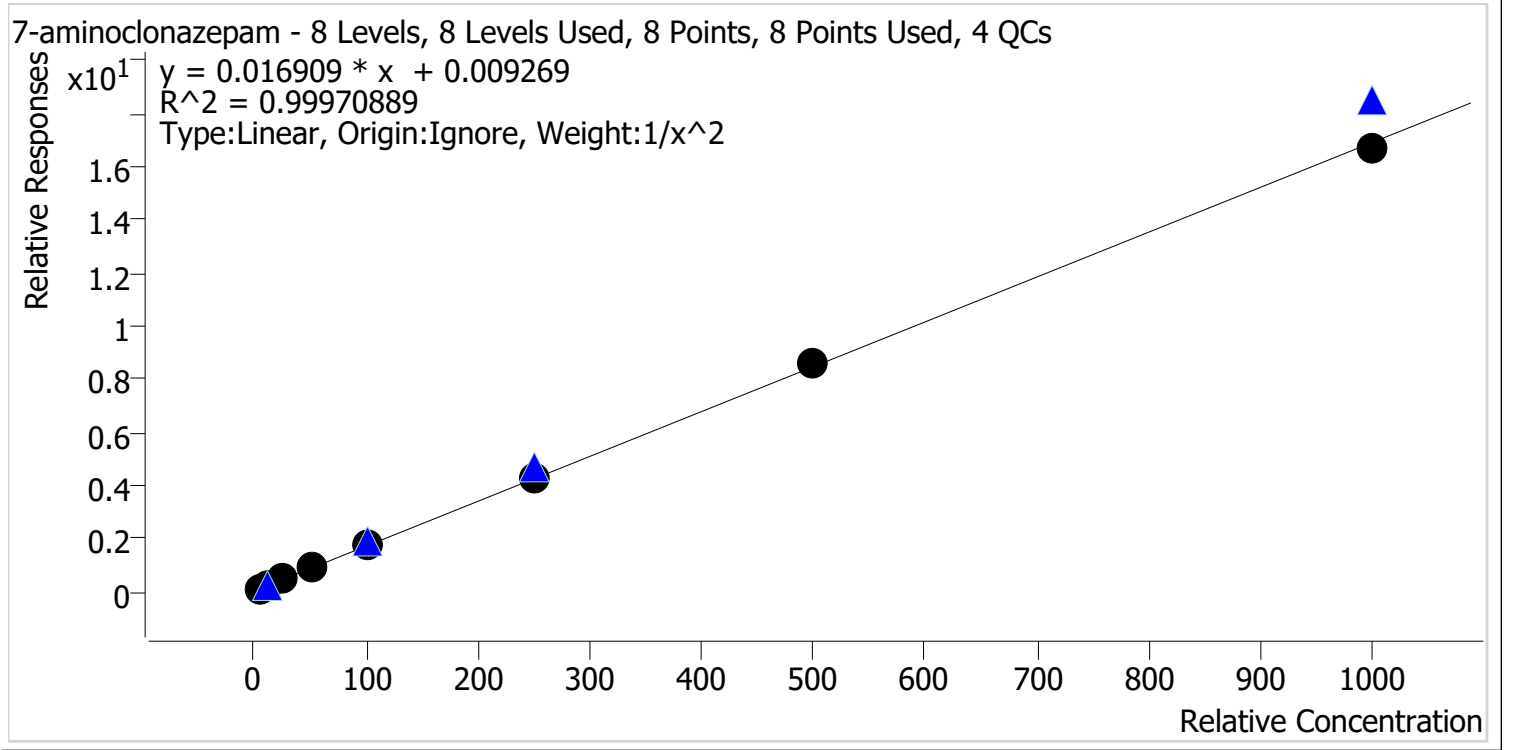
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	104.0
p1 Cal 2-10ng	2	✓	1.0	0.9	93.7
p1 Cal 3 -25ng	3	✓	2.5	2.4	97.7
p1 Cal 4-50ng	4	✓	5.0	4.7	94.6
p1 Cal 5-100ng	5	✓	10.0	10.1	101.1
p1 Cal 6-250ng	6	✓	25.0	25.9	103.5
p1 Cal 7-500ng	7	✓	50.0	51.4	102.7
p1 Cal 8-1000ng	8	✓	100.0	102.8	102.8

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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** 7-aminoclonazepam **Internal Standard** 7-Aminoclonazepam-D4



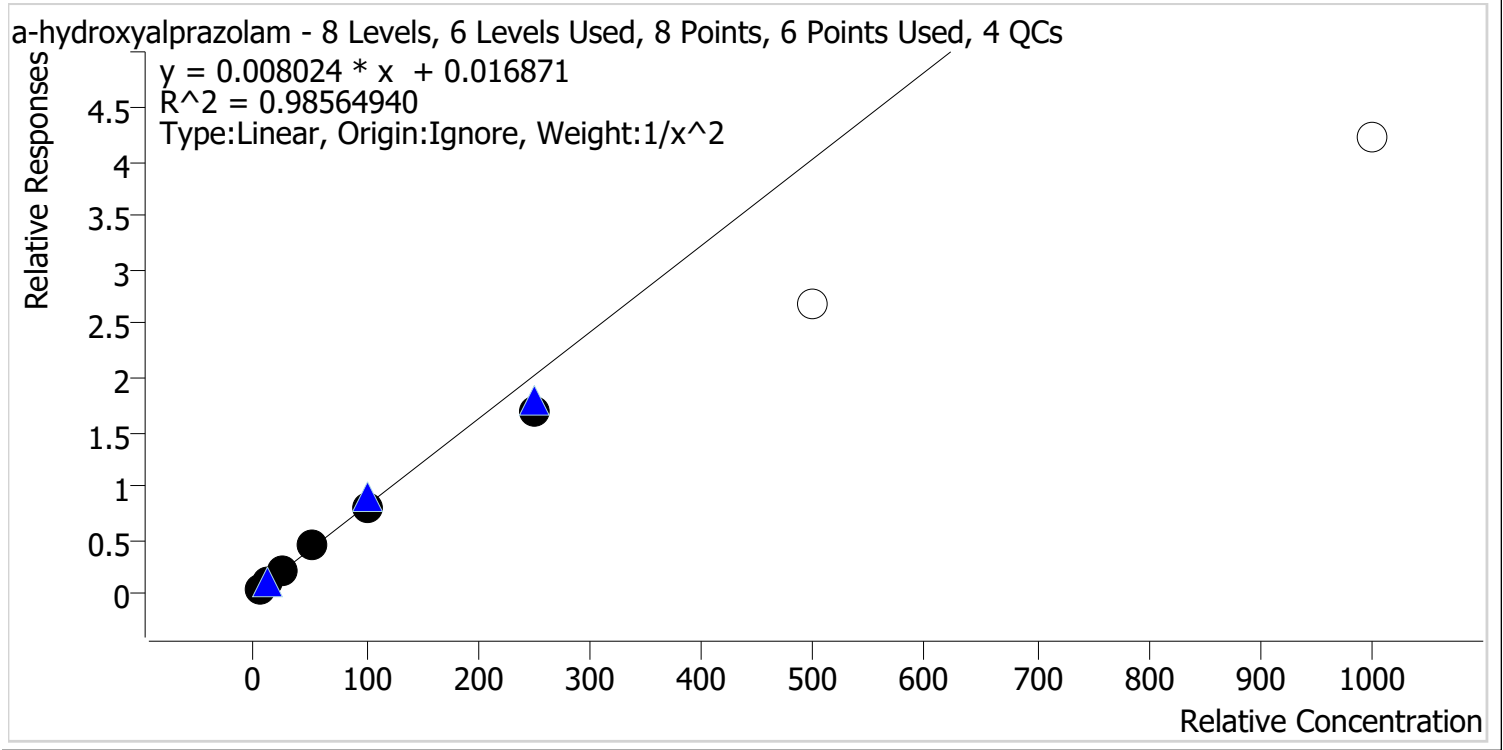
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2-10ng	2	✓	10.0	9.9	99.1
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	50.2	100.4
p1 Cal 5-100ng	5	✓	100.0	100.1	100.1
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	511.9	102.4
p1 Cal 8-1000ng	8	✓	1000.0	987.1	98.7

AK



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** a-hydroxyalprazolam **Internal Standard** Alprazolam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.1
p1 Cal 2-10ng	2	✓	10.0	10.5	105.1
p1 Cal 3 -25ng	3	✓	25.0	27.5	110.0
p1 Cal 4-50ng	4	✓	50.0	54.0	107.9
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	209.1	83.7
p1 Cal 7-500ng	7	✗	500.0	334.7	66.9
p1 Cal 8-1000ng	8	✗	1000.0	525.5	52.5

\*Cal 7 and 8 dropped due to accuracy

Compound evaluated qualitatively

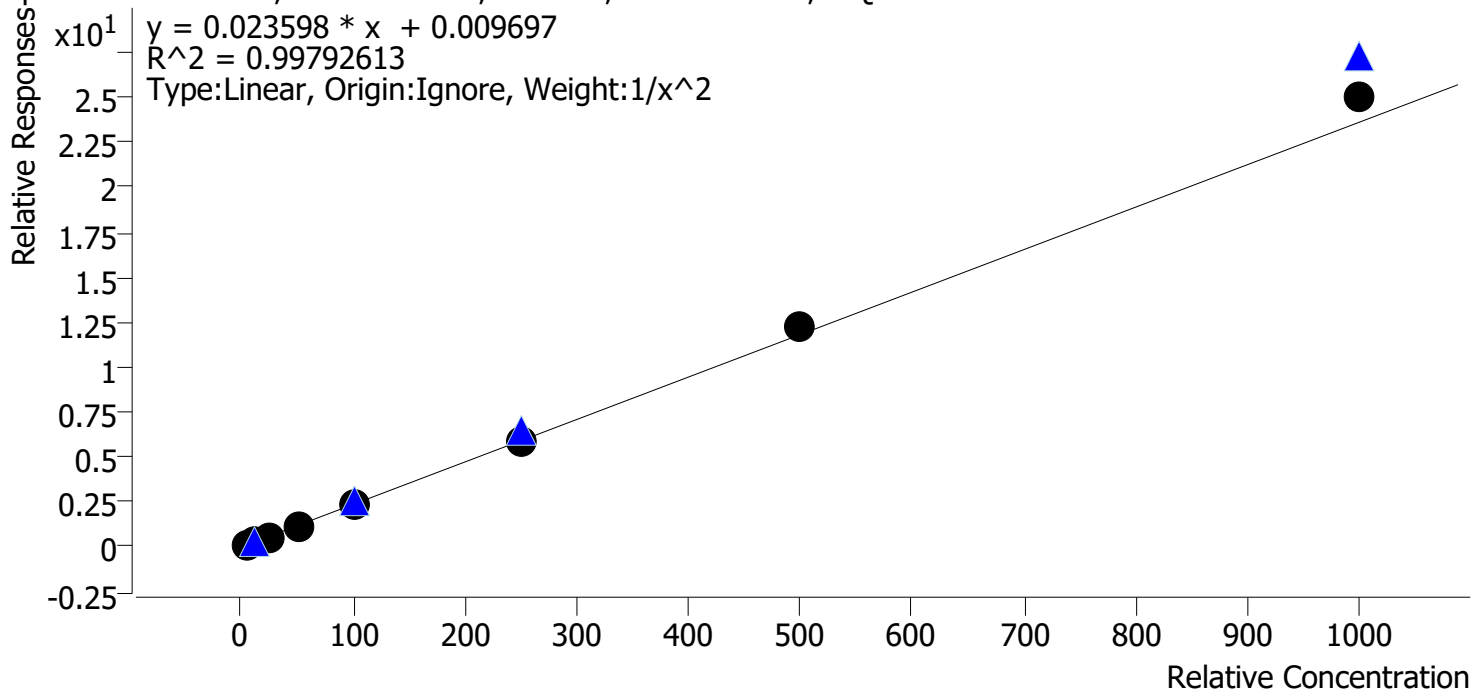
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** alpha-PVP **Internal Standard** alpha-PVP-d8

alpha-PVP - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.6
p1 Cal 2-10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.0
p1 Cal 4-50ng	4	✓	50.0	48.1	96.2
p1 Cal 5-100ng	5	✓	100.0	96.3	96.3
p1 Cal 6-250ng	6	✓	250.0	252.0	100.8
p1 Cal 7-500ng	7	✓	500.0	521.9	104.4
p1 Cal 8-1000ng	8	✓	1000.0	1058.9	105.9



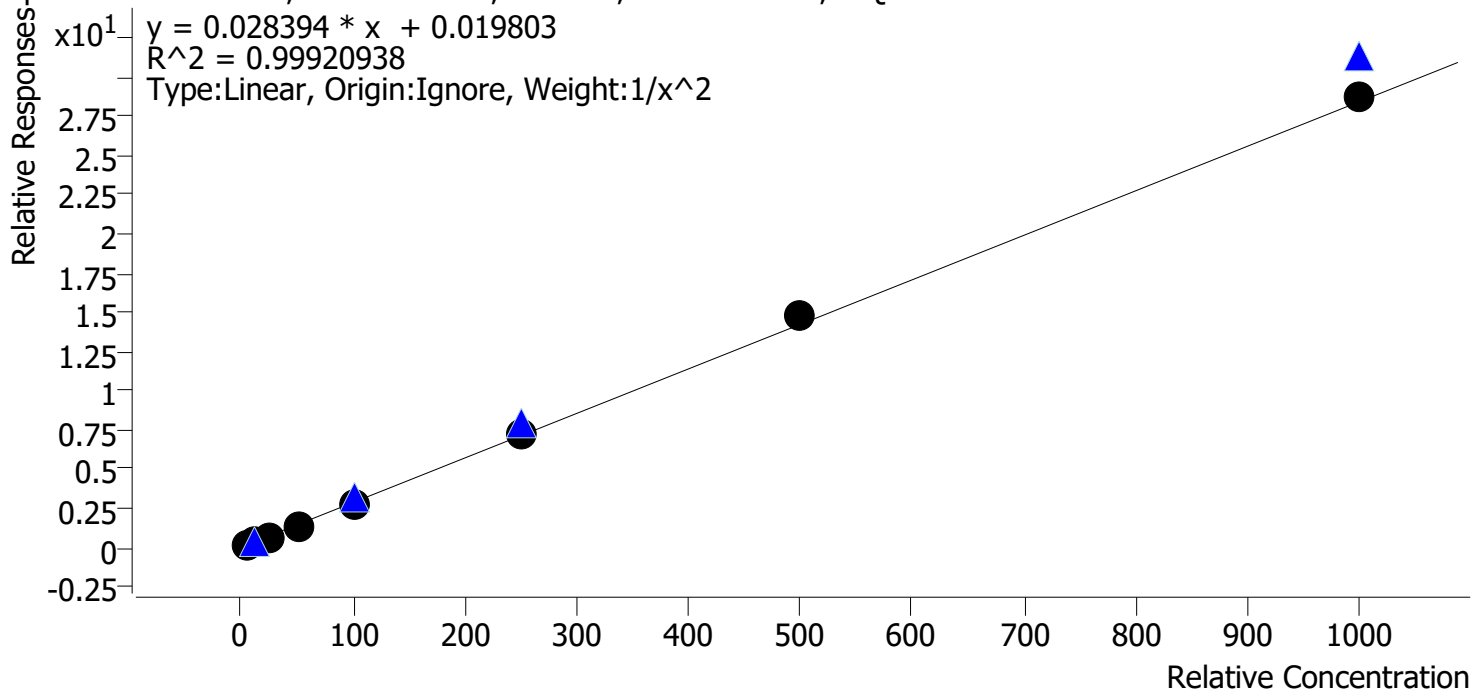
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Alprazolam **Internal Standard** Alprazolam-D5

Alprazolam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



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	9.9	99.5
p1 Cal 3 -25ng	3	✓	25.0	24.1	96.4
p1 Cal 4-50ng	4	✓	50.0	48.9	97.8
p1 Cal 5-100ng	5	✓	100.0	98.6	98.6
p1 Cal 6-250ng	6	✓	250.0	252.2	100.9
p1 Cal 7-500ng	7	✓	500.0	520.8	104.2
p1 Cal 8-1000ng	8	✓	1000.0	1014.9	101.5

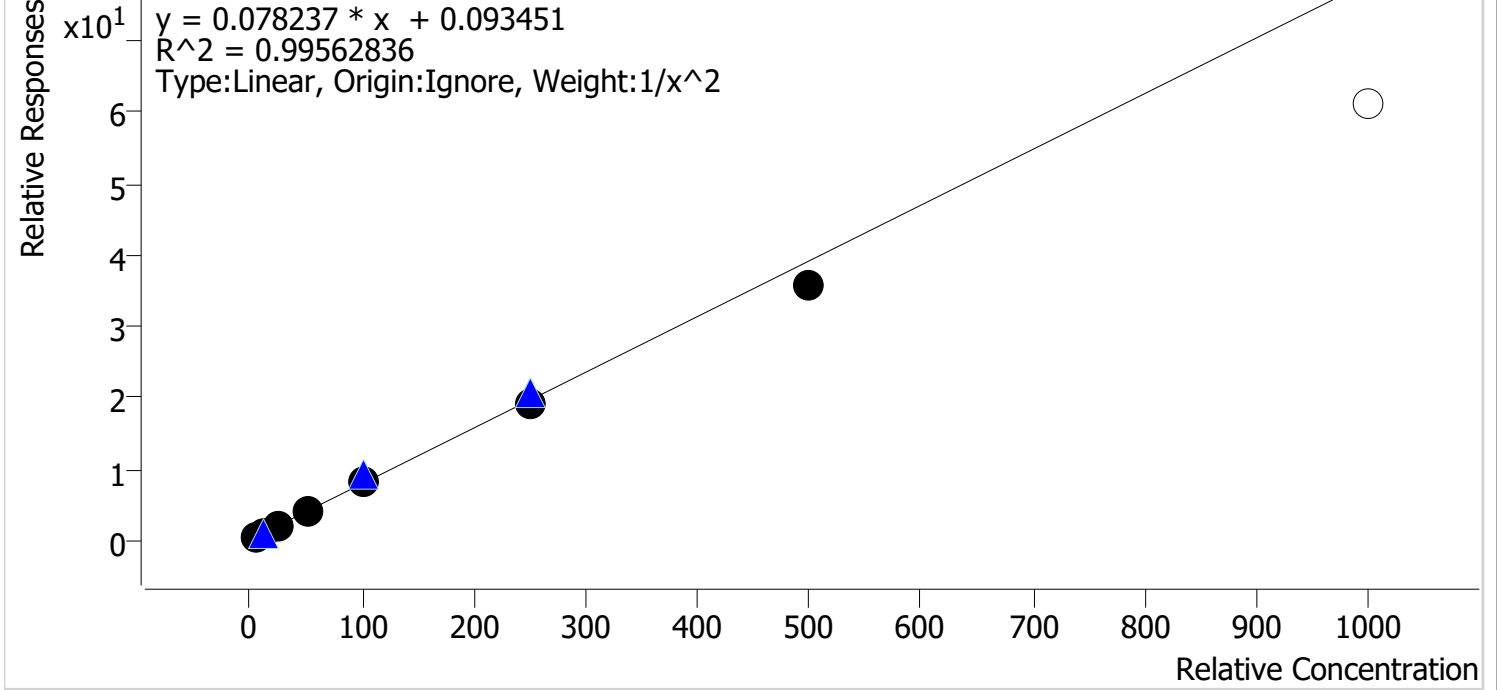
AS



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Amphetamine **Internal Standard** Amphetamine-D11

Amphetamine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.5
p1 Cal 2-10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	53.2	106.3
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	241.2	96.5
p1 Cal 7-500ng	7	✓	500.0	453.5	90.7
p1 Cal 8-1000ng	8	x	1000.0	784.5	78.5

\*Cal 8 dropped due to accuracy

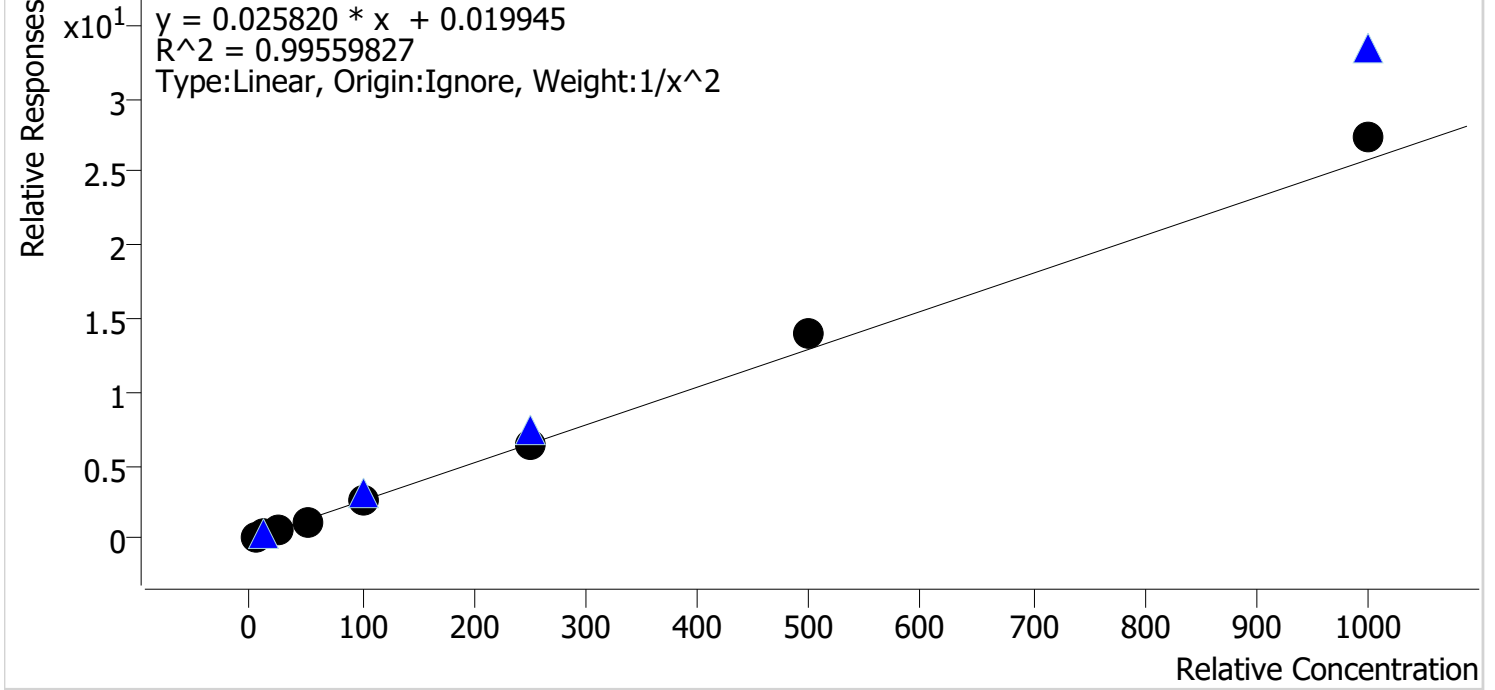
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Benzoylecgonine **Internal Standard** Benzoylecgonine-d8

Benzoylecgonine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.6
p1 Cal 2-10ng	2	✓	10.0	9.6	96.0
p1 Cal 3 -25ng	3	✓	25.0	24.0	96.2
p1 Cal 4-50ng	4	✓	50.0	45.8	91.7
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	248.3	99.3
p1 Cal 7-500ng	7	✓	500.0	545.3	109.1
p1 Cal 8-1000ng	8	✓	1000.0	1058.9	105.9

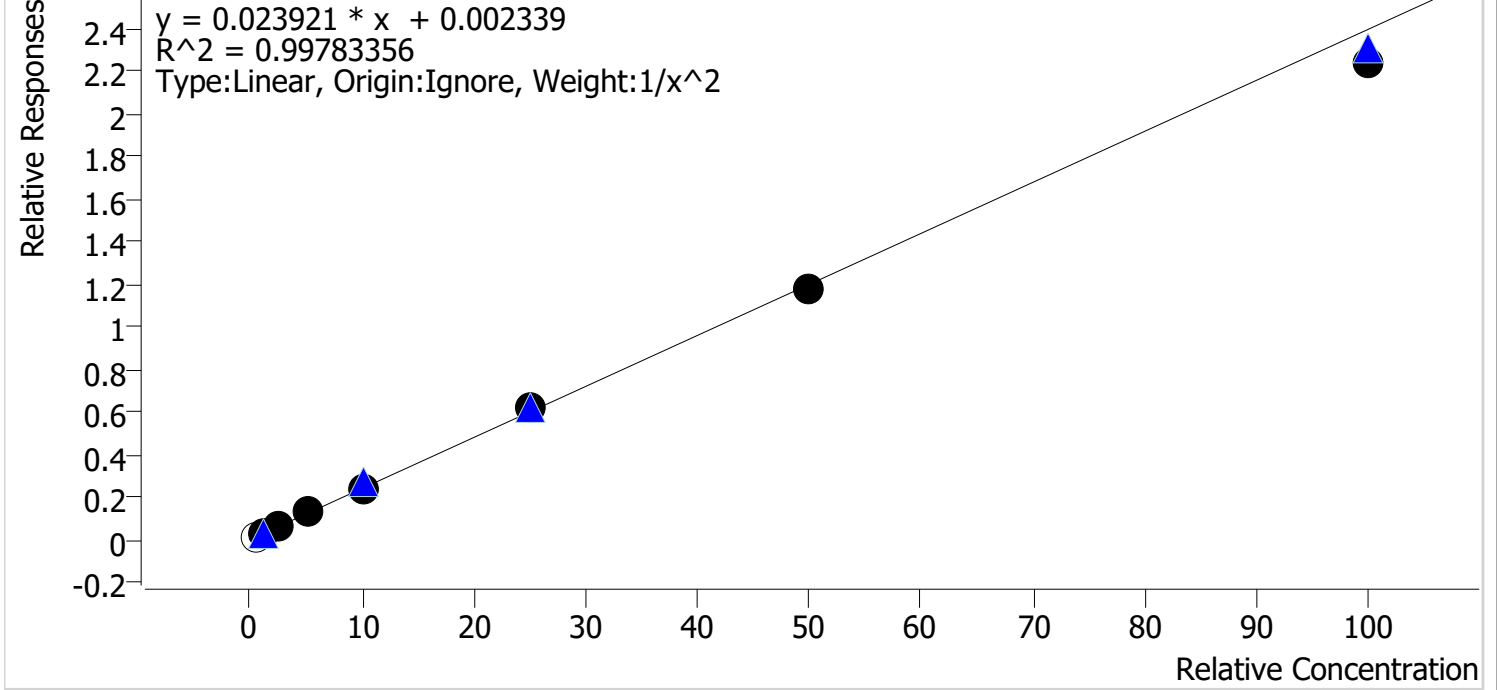
Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Buprenorphine **Internal Standard** Buprenorphine-D4

Buprenorphine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	x	0.5	0.5	106.5
p1 Cal 2-10ng	2	✓	1.0	1.0	98.2
p1 Cal 3 -25ng	3	✓	2.5	2.5	101.2
p1 Cal 4-50ng	4	✓	5.0	5.3	106.5
p1 Cal 5-100ng	5	✓	10.0	10.0	100.0
p1 Cal 6-250ng	6	✓	25.0	25.6	102.3
p1 Cal 7-500ng	7	✓	50.0	49.1	98.1
p1 Cal 8-1000ng	8	✓	100.0	93.7	93.7

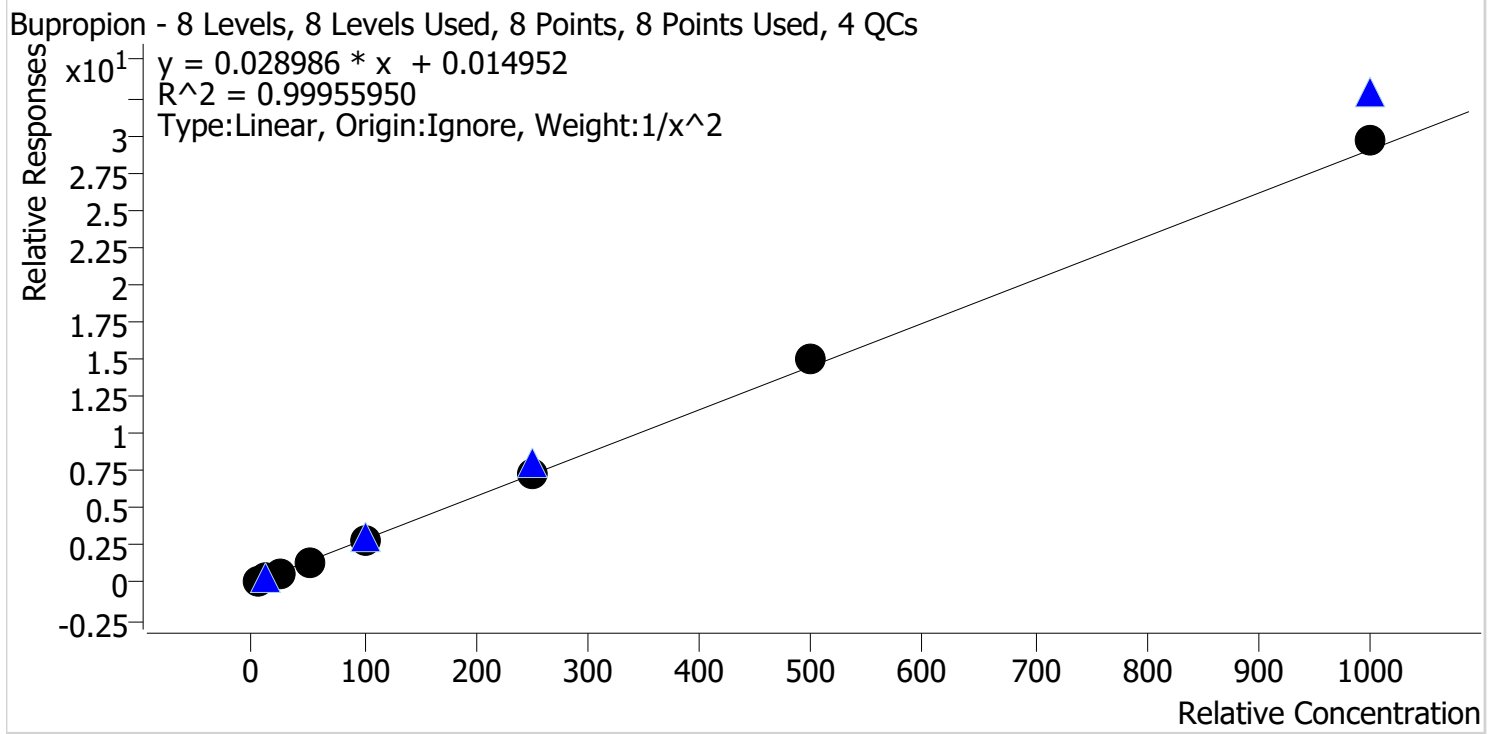
\*Cal 1 dropped due to the ratio being out

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Bupropion **Internal Standard** Bupropion-D9



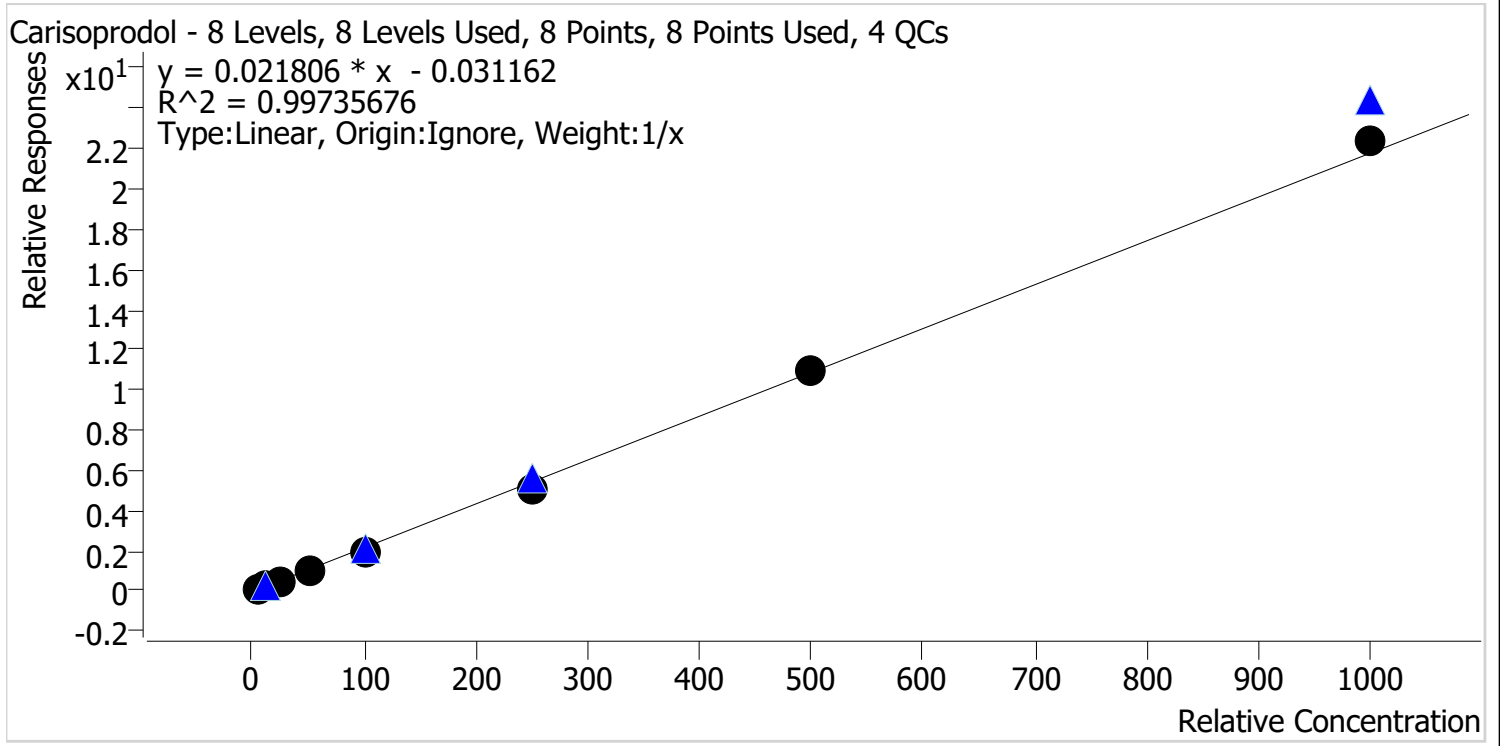
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.8
p1 Cal 2-10ng	2	✓	10.0	10.0	99.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.2
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	98.8	98.8
p1 Cal 6-250ng	6	✓	250.0	248.0	99.2
p1 Cal 7-500ng	7	✓	500.0	514.0	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1021.0	102.1

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Carisoprodol **Internal Standard** Carisoprodol-D7



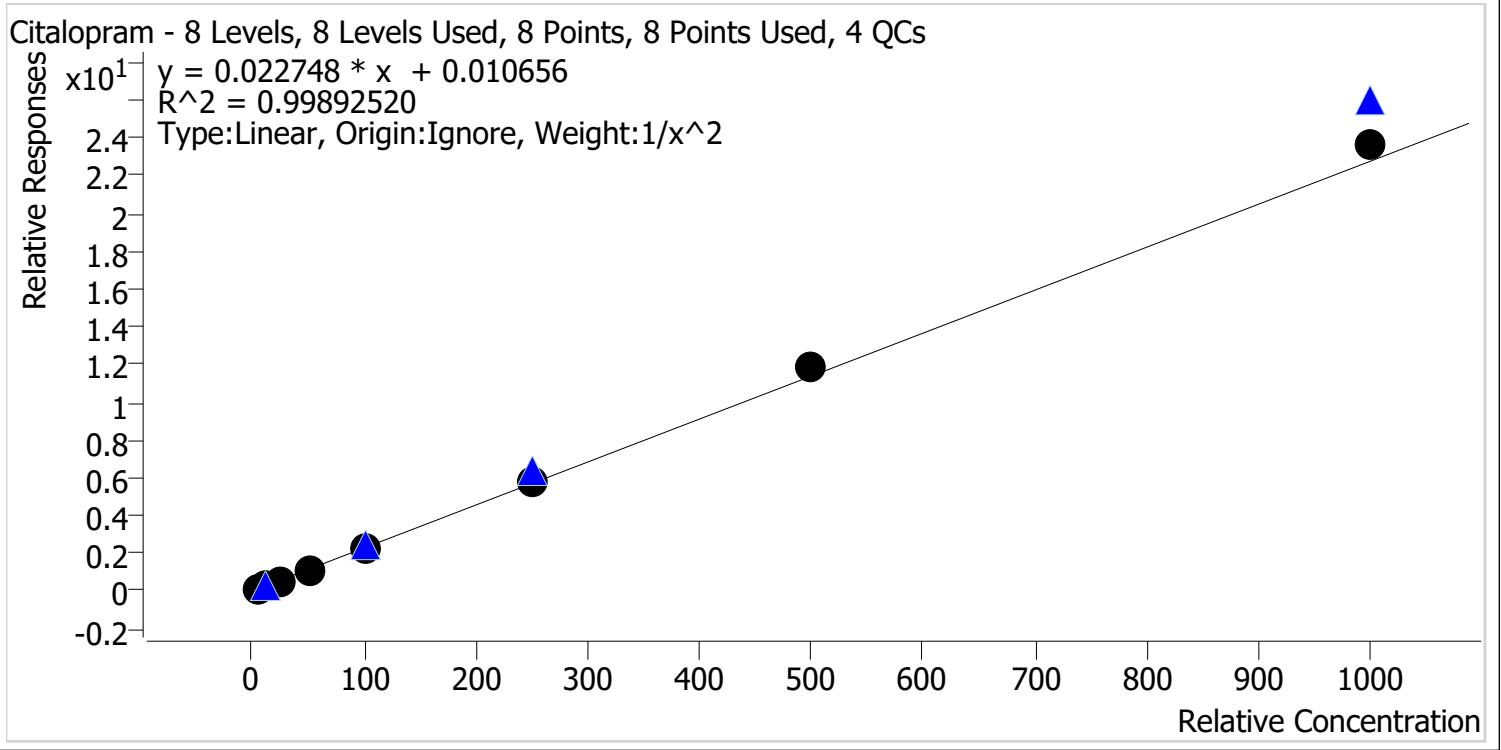
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.4	128.8
p1 Cal 2-10ng	2	✓	10.0	10.7	106.5
p1 Cal 3 -25ng	3	✓	25.0	22.7	91.0
p1 Cal 4-50ng	4	✓	50.0	43.2	86.5
p1 Cal 5-100ng	5	✓	100.0	90.7	90.7
p1 Cal 6-250ng	6	✓	250.0	232.4	93.0
p1 Cal 7-500ng	7	✓	500.0	501.9	100.4
p1 Cal 8-1000ng	8	✓	1000.0	1031.9	103.2

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Citalopram **Internal Standard** Citalopram-D6



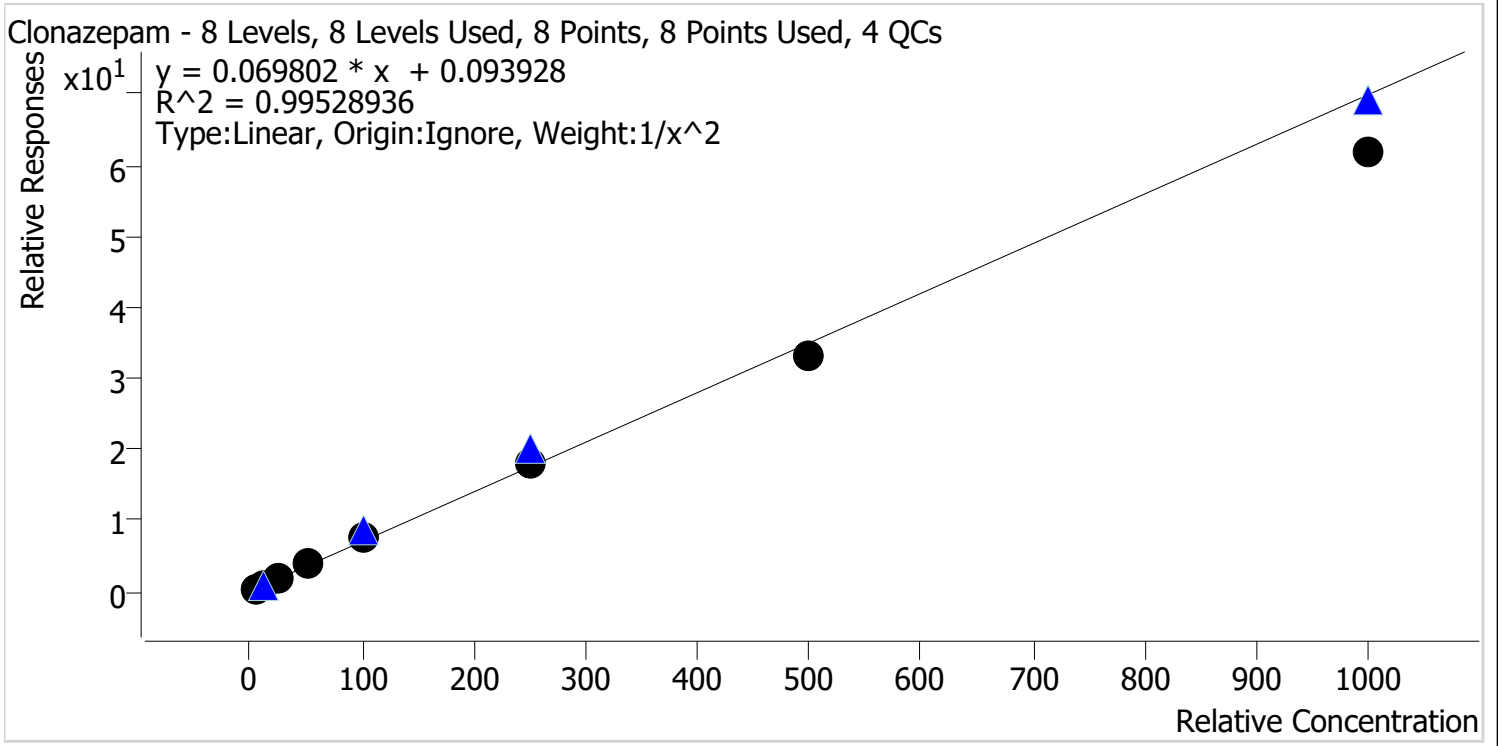
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2-10ng	2	✓	10.0	9.9	98.7
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	48.5	97.0
p1 Cal 5-100ng	5	✓	100.0	97.3	97.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.5
p1 Cal 7-500ng	7	✓	500.0	520.2	104.0
p1 Cal 8-1000ng	8	✓	1000.0	1035.4	103.5

AK



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Clonazepam **Internal Standard** Clonazepam-D4



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	97.9
p1 Cal 2-10ng	2	✓	10.0	10.2	102.0
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.4
p1 Cal 4-50ng	4	✓	50.0	52.7	105.4
p1 Cal 5-100ng	5	✓	100.0	106.1	106.1
p1 Cal 6-250ng	6	✓	250.0	259.4	103.8
p1 Cal 7-500ng	7	✓	500.0	475.6	95.1
p1 Cal 8-1000ng	8	✓	1000.0	883.5	88.4

Compound evaluated qualitatively



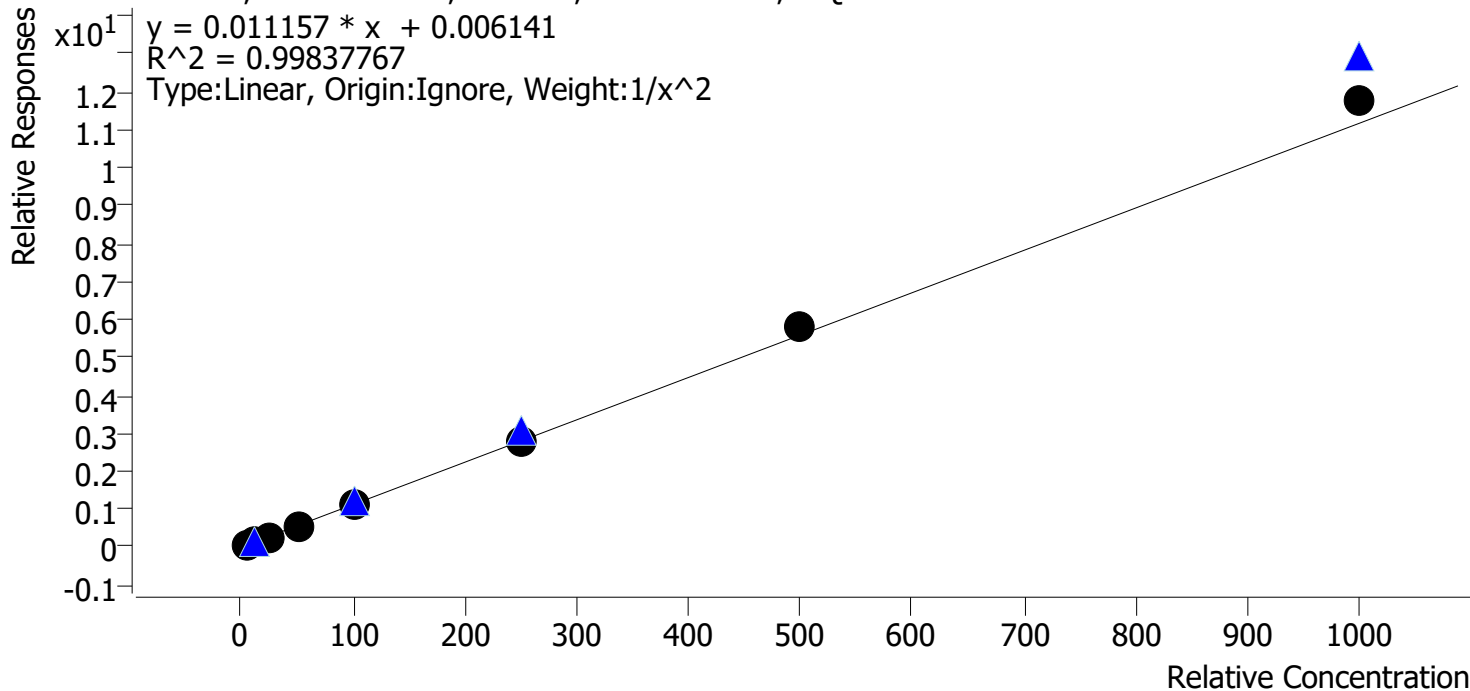
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Cocaine **Internal Standard** Cocaine-d3

Cocaine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.6
p1 Cal 2-10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.1
p1 Cal 4-50ng	4	✓	50.0	48.6	97.1
p1 Cal 5-100ng	5	✓	100.0	98.4	98.4
p1 Cal 6-250ng	6	✓	250.0	252.6	101.0
p1 Cal 7-500ng	7	✓	500.0	516.3	103.3
p1 Cal 8-1000ng	8	✓	1000.0	1050.9	105.1

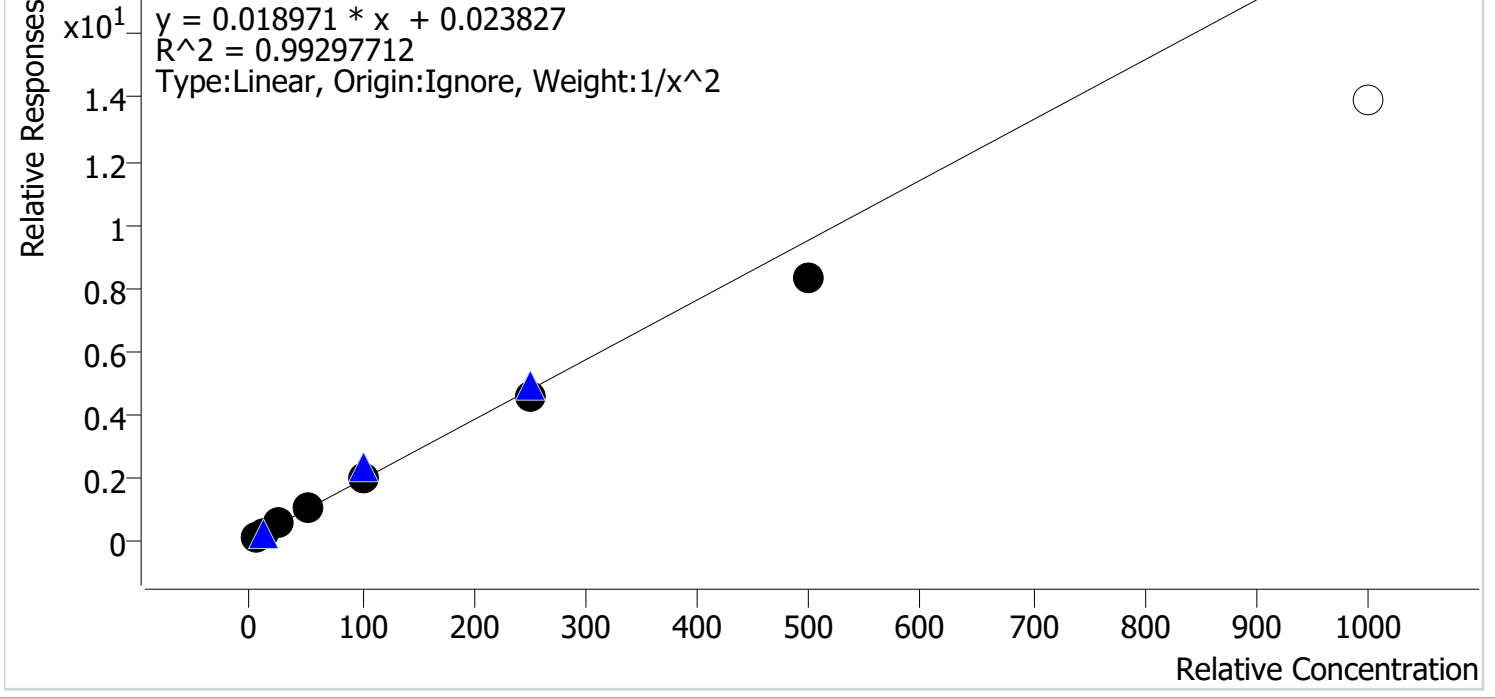
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Codeine **Internal Standard** Codeine-D6

Codeine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2-10ng	2	✓	10.0	10.4	104.3
p1 Cal 3 -25ng	3	✓	25.0	26.9	107.7
p1 Cal 4-50ng	4	✓	50.0	52.8	105.6
p1 Cal 5-100ng	5	✓	100.0	102.8	102.8
p1 Cal 6-250ng	6	✓	250.0	240.5	96.2
p1 Cal 7-500ng	7	✓	500.0	438.0	87.6
p1 Cal 8-1000ng	8	x	1000.0	730.7	73.1

\*Cal 8 dropped due to accuracy

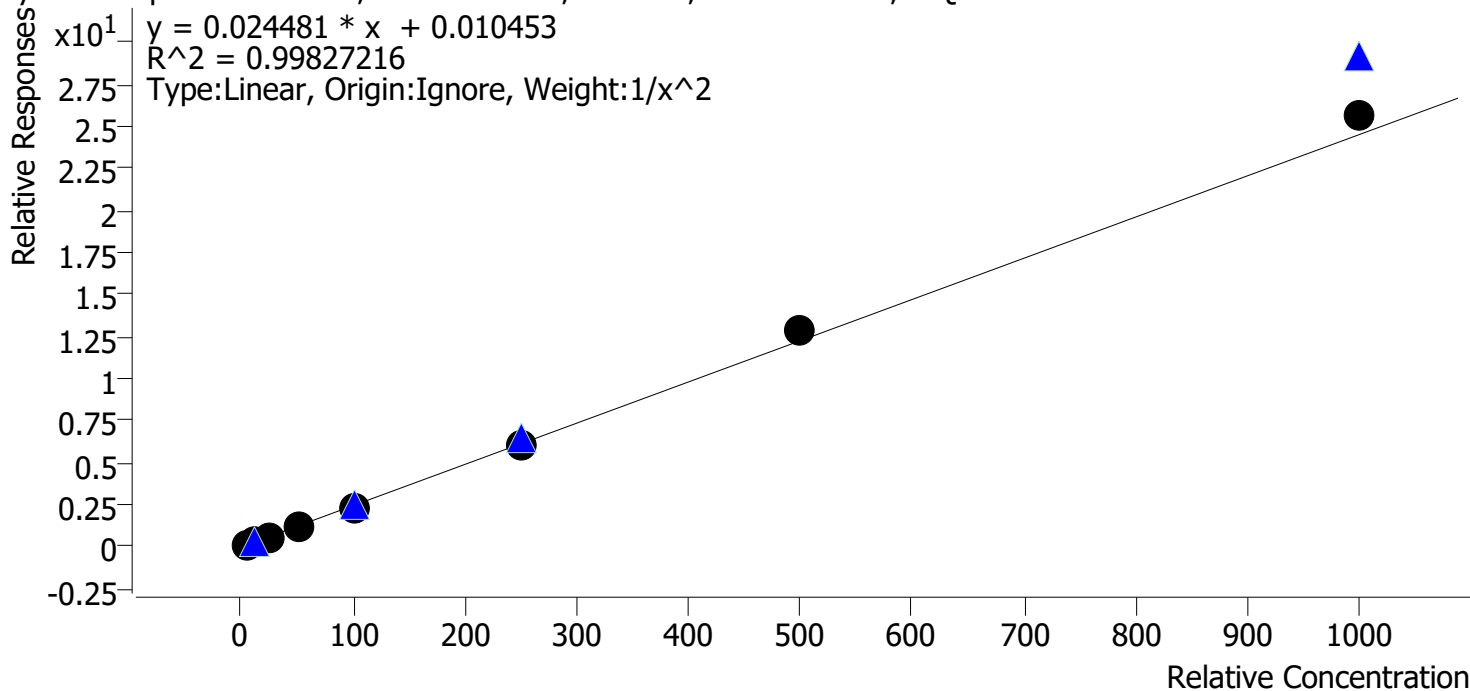
Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Cyclobenzaprine **Internal Standard** Cyclobenzaprine-D3

Cyclobenzaprine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2-10ng	2	✓	10.0	9.8	97.9
p1 Cal 3 -25ng	3	✓	25.0	24.5	97.8
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	96.0	96.0
p1 Cal 6-250ng	6	✓	250.0	243.8	97.5
p1 Cal 7-500ng	7	✓	500.0	526.4	105.3
p1 Cal 8-1000ng	8	✓	1000.0	1051.3	105.1

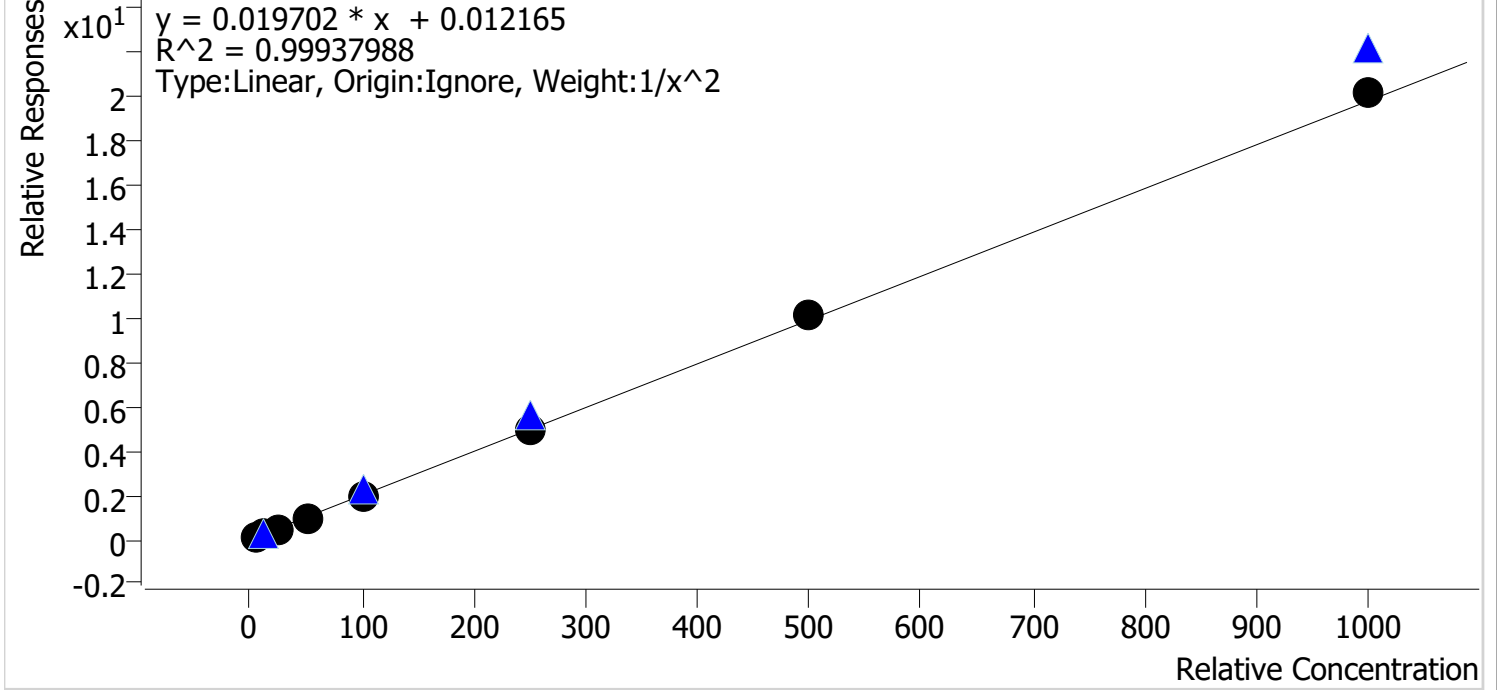
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Dextromethorphan **Internal Standard** Dextromethorphan-D3

Dextromethorphan - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



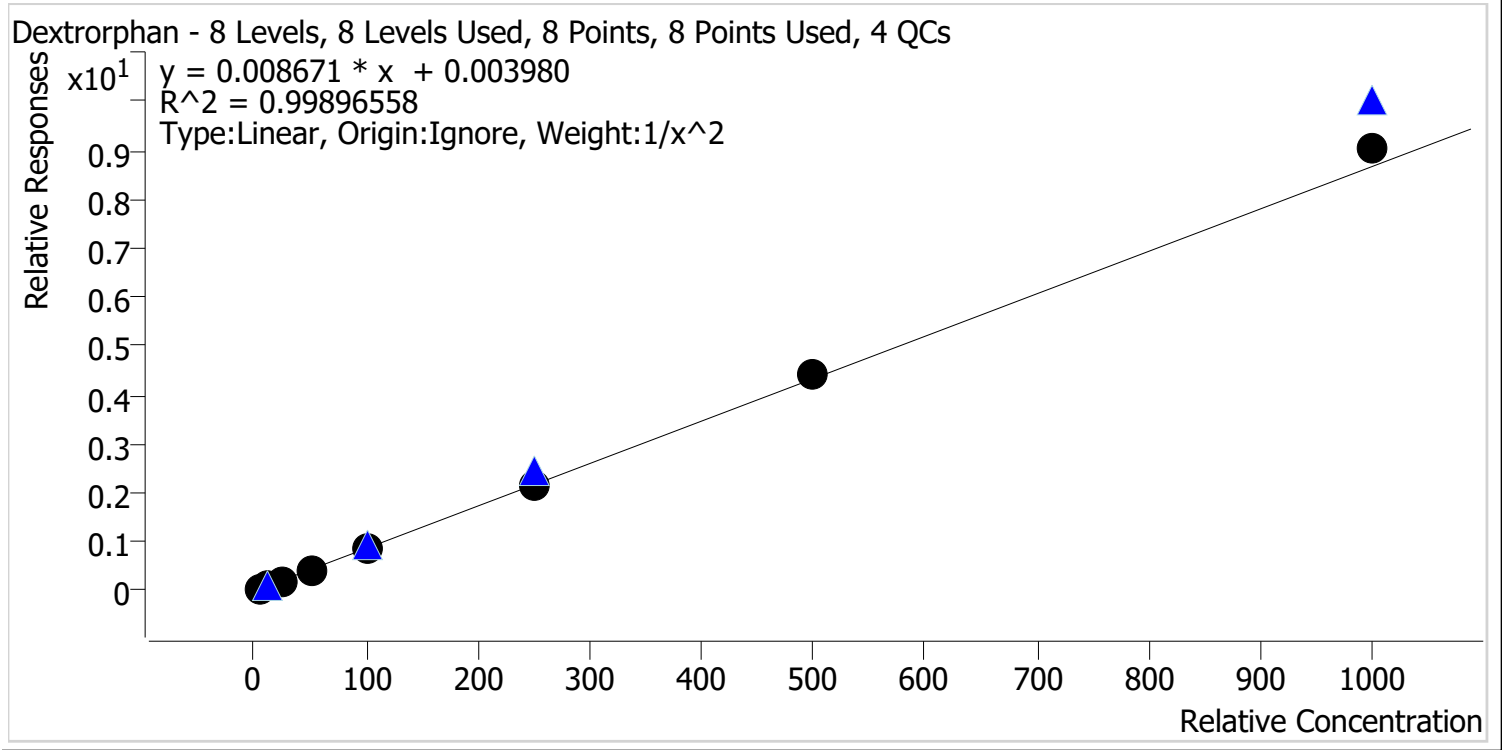
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.5
p1 Cal 2-10ng	2	✓	10.0	9.9	98.8
p1 Cal 3 -25ng	3	✓	25.0	24.0	96.0
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	252.7	101.1
p1 Cal 7-500ng	7	✓	500.0	514.0	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1015.4	101.5

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Dextrorphan **Internal Standard** Dextrorphan-D3



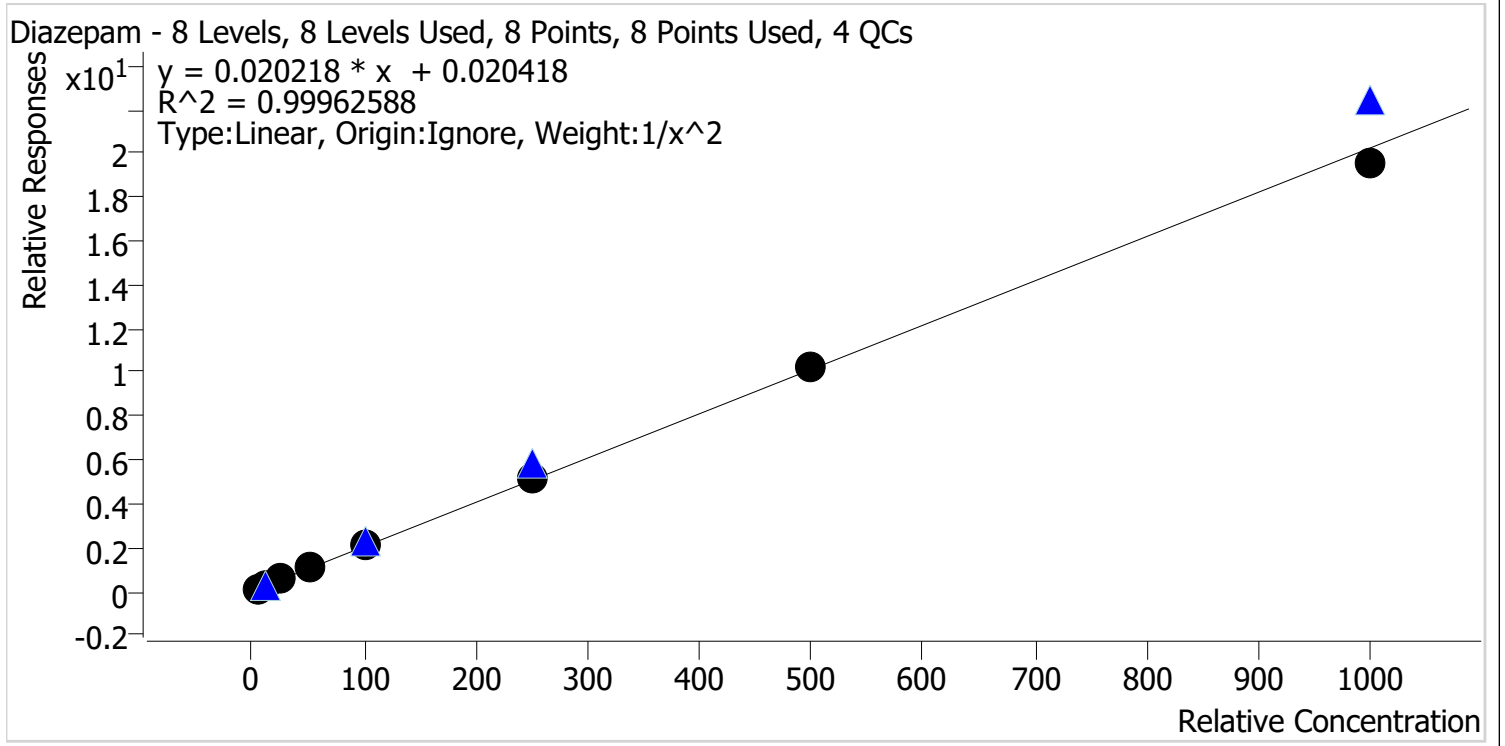
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.7
p1 Cal 2-10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.4	97.6
p1 Cal 4-50ng	4	✓	50.0	49.2	98.5
p1 Cal 5-100ng	5	✓	100.0	97.0	97.0
p1 Cal 6-250ng	6	✓	250.0	249.3	99.7
p1 Cal 7-500ng	7	✓	500.0	513.9	102.8
p1 Cal 8-1000ng	8	✓	1000.0	1047.4	104.7

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Diazepam **Internal Standard** Diazepam-D5



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.3
p1 Cal 2-10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.2	100.7
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	101.1	101.1
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	502.2	100.4
p1 Cal 8-1000ng	8	✓	1000.0	963.0	96.3

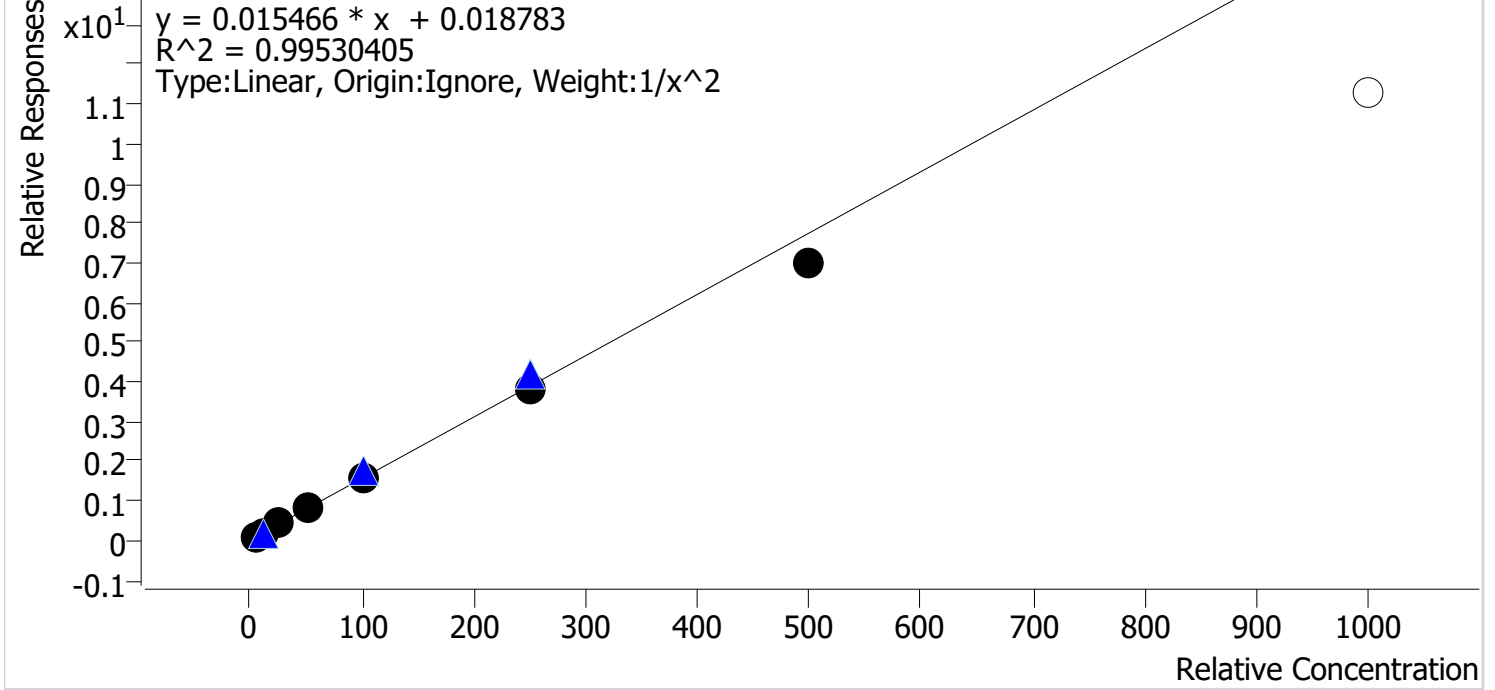
AK



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Dihydrocodeine **Internal Standard** Dihydrocodeine-D6

Dihydrocodeine - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 4 QCs



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	10.4	104.5
p1 Cal 3 -25ng	3	✓	25.0	26.0	104.0
p1 Cal 4-50ng	4	✓	50.0	52.7	105.3
p1 Cal 5-100ng	5	✓	100.0	103.0	103.0
p1 Cal 6-250ng	6	✓	250.0	242.8	97.1
p1 Cal 7-500ng	7	✓	500.0	448.1	89.6
p1 Cal 8-1000ng	8	✗	1000.0	727.1	72.7

\*Cal 8 dropped due to accuracy

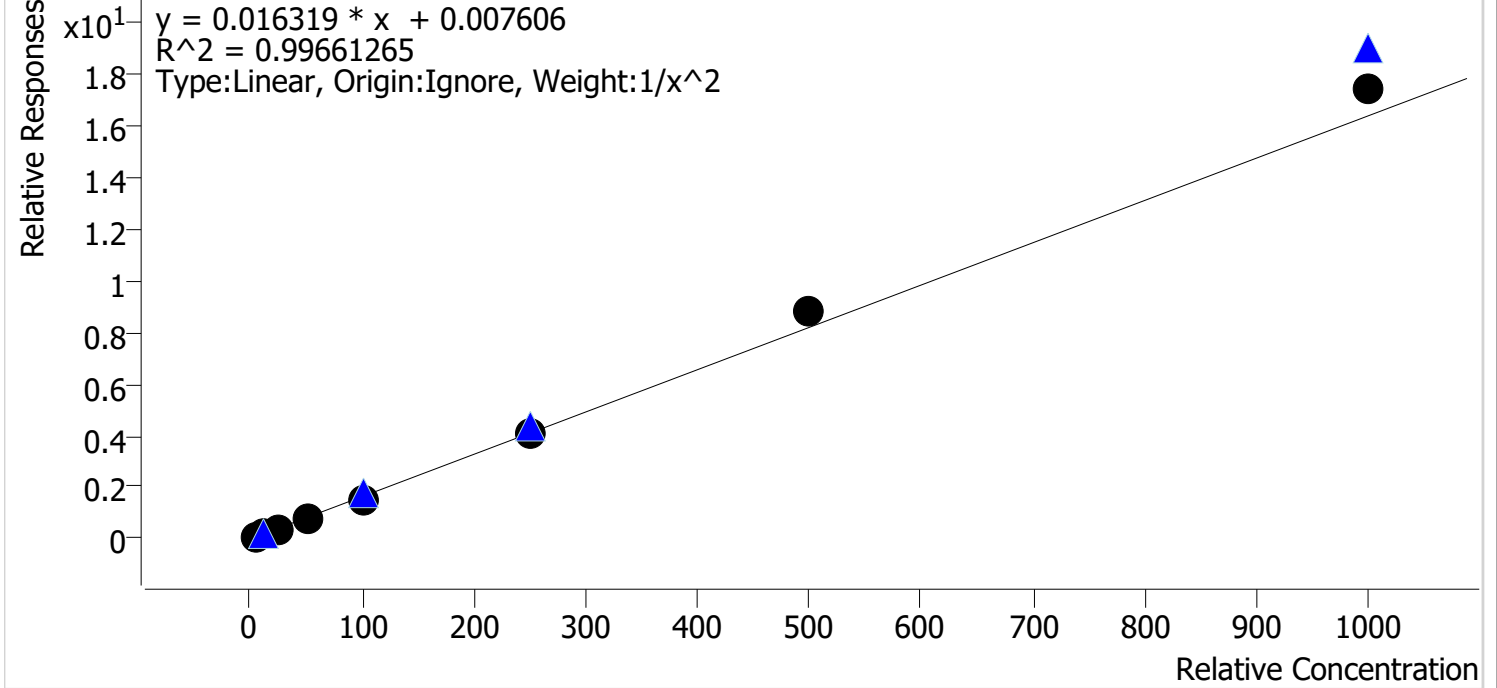
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Diphenhydramine **Internal Standard** Diphenhydramine-D3

Diphenhydramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.2	103.1
p1 Cal 2-10ng	2	✓	10.0	9.7	96.6
p1 Cal 3 -25ng	3	✓	25.0	24.0	95.9
p1 Cal 4-50ng	4	✓	50.0	47.8	95.6
p1 Cal 5-100ng	5	✓	100.0	95.1	95.1
p1 Cal 6-250ng	6	✓	250.0	249.6	99.8
p1 Cal 7-500ng	7	✓	500.0	537.4	107.5
p1 Cal 8-1000ng	8	✓	1000.0	1064.5	106.4

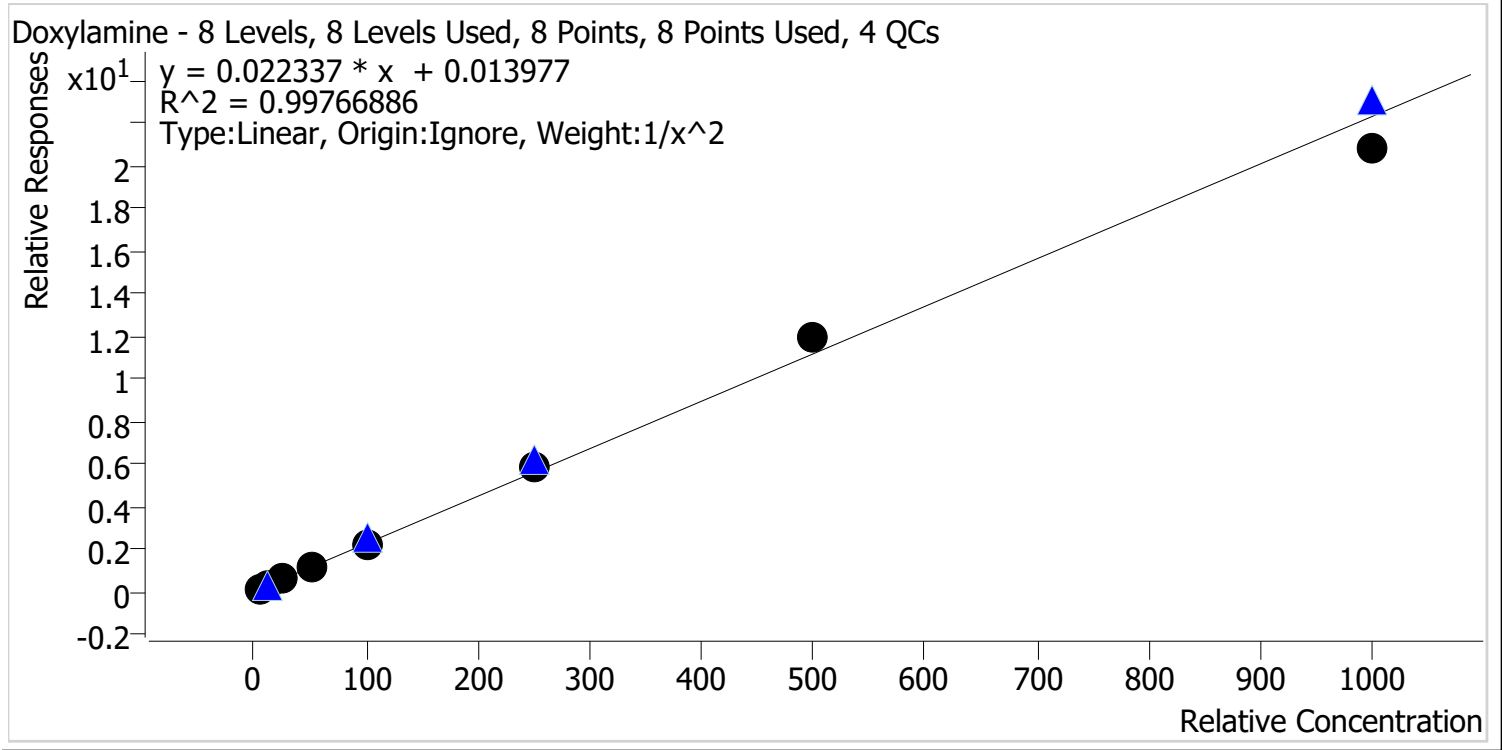


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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Doxylamine **Internal Standard** Doxylamine-D5



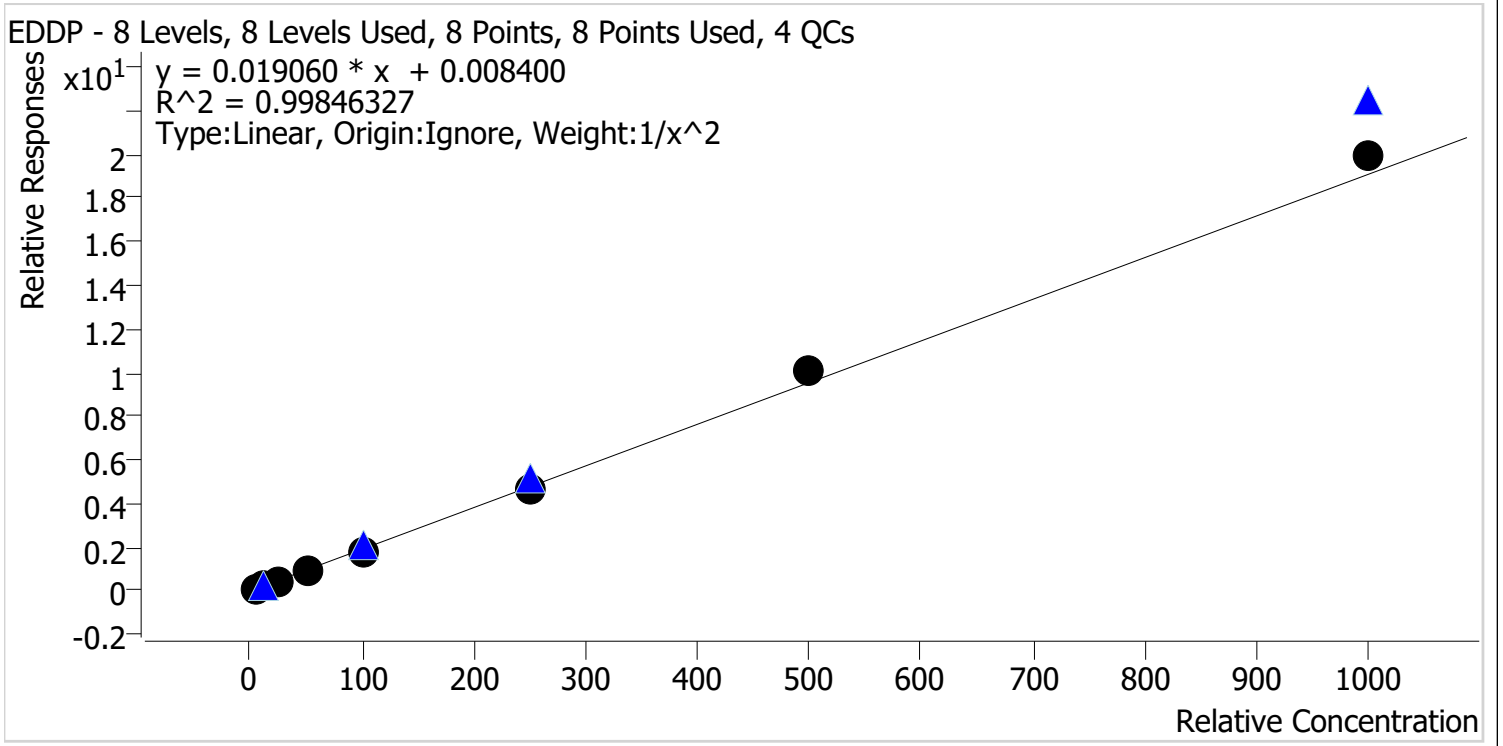
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.0
p1 Cal 2-10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.0
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	98.7	98.7
p1 Cal 6-250ng	6	✓	250.0	259.4	103.7
p1 Cal 7-500ng	7	✓	500.0	537.6	107.5
p1 Cal 8-1000ng	8	✓	1000.0	934.7	93.5

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** EDDP **Internal Standard** EDDP-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.1
p1 Cal 2-10ng	2	✓	10.0	10.0	99.8
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.7
p1 Cal 4-50ng	4	✓	50.0	49.0	98.0
p1 Cal 5-100ng	5	✓	100.0	96.6	96.6
p1 Cal 6-250ng	6	✓	250.0	244.6	97.9
p1 Cal 7-500ng	7	✓	500.0	525.3	105.1
p1 Cal 8-1000ng	8	✓	1000.0	1048.5	104.9

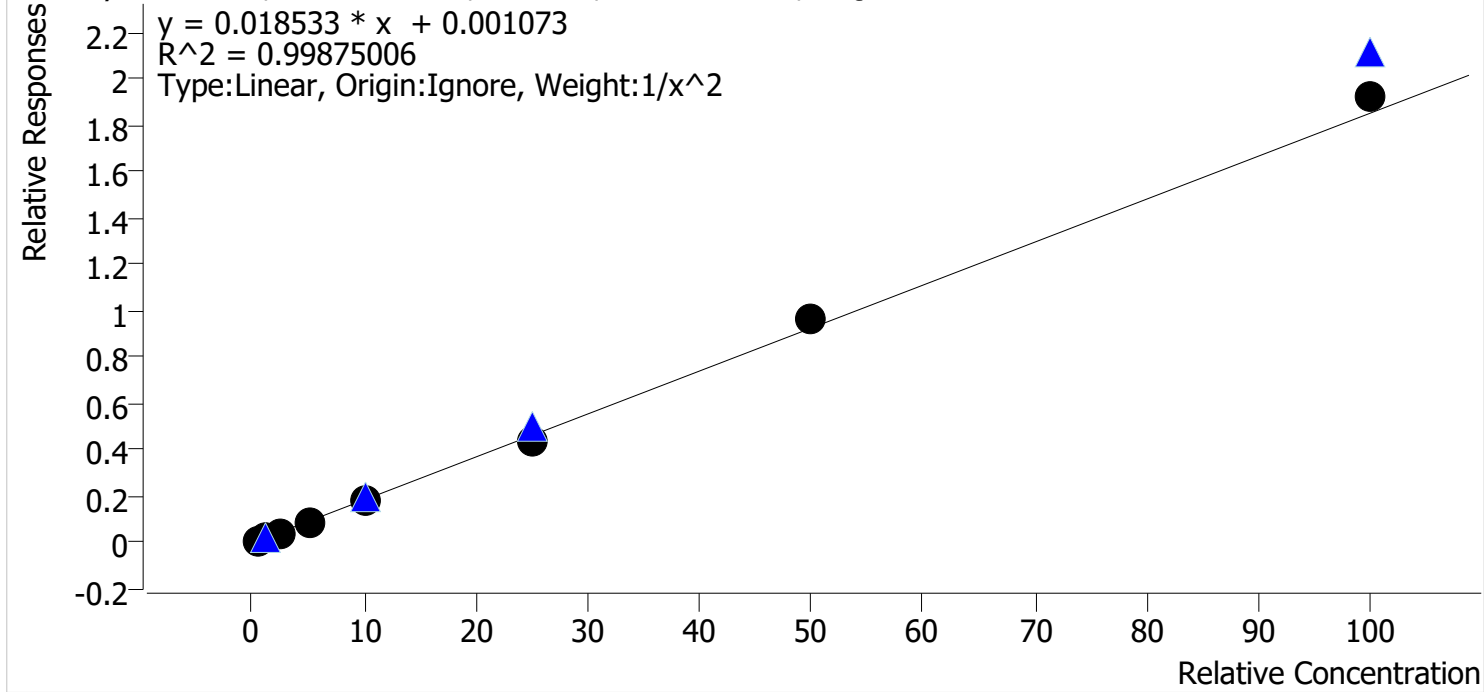
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Fentanyl **Internal Standard** Fentanyl-D5

Fentanyl - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	101.6
p1 Cal 2-10ng	2	✓	1.0	1.0	98.3
p1 Cal 3 -25ng	3	✓	2.5	2.4	96.1
p1 Cal 4-50ng	4	✓	5.0	5.0	99.8
p1 Cal 5-100ng	5	✓	10.0	10.1	100.6
p1 Cal 6-250ng	6	✓	25.0	24.0	96.0
p1 Cal 7-500ng	7	✓	50.0	51.7	103.5
p1 Cal 8-1000ng	8	✓	100.0	104.1	104.1

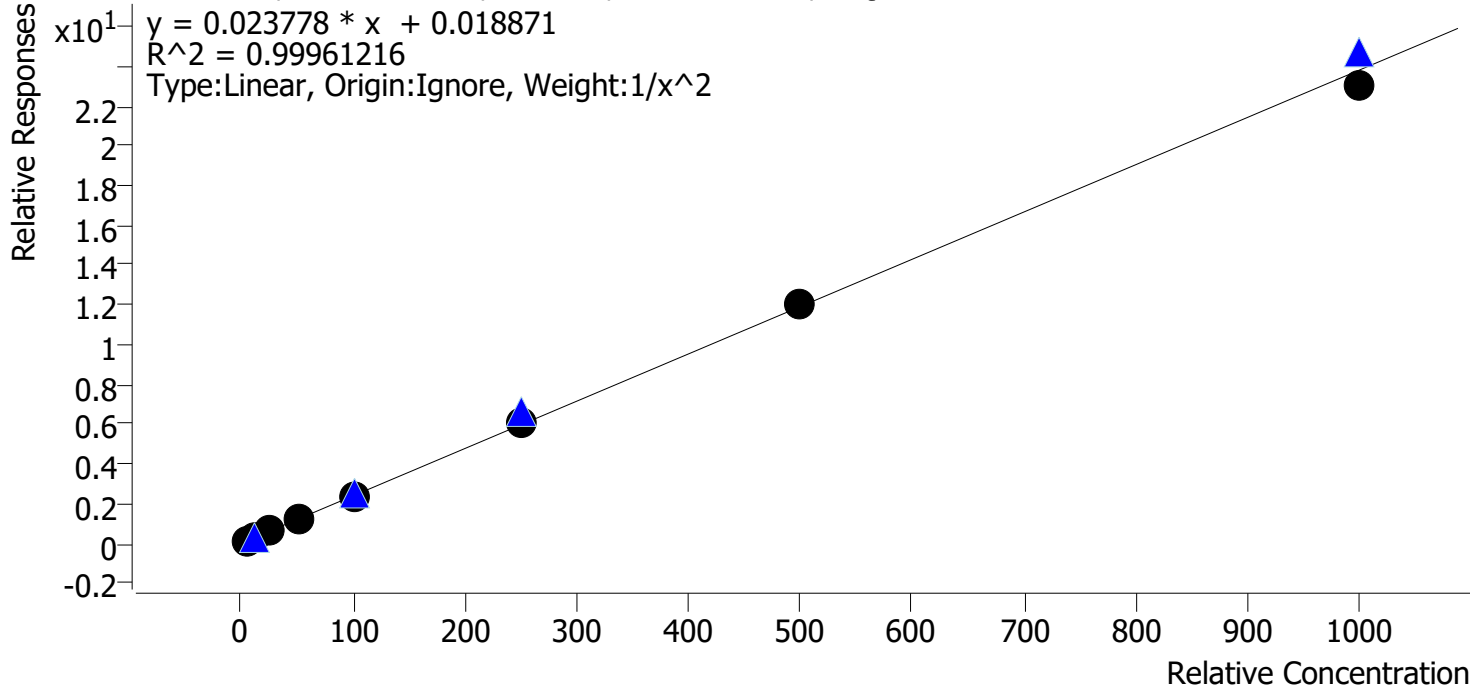
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# AM #28 Multi-Drug Quant. Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Fluoxetine **Internal Standard** Fluoxetine-D6

Fluoxetine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



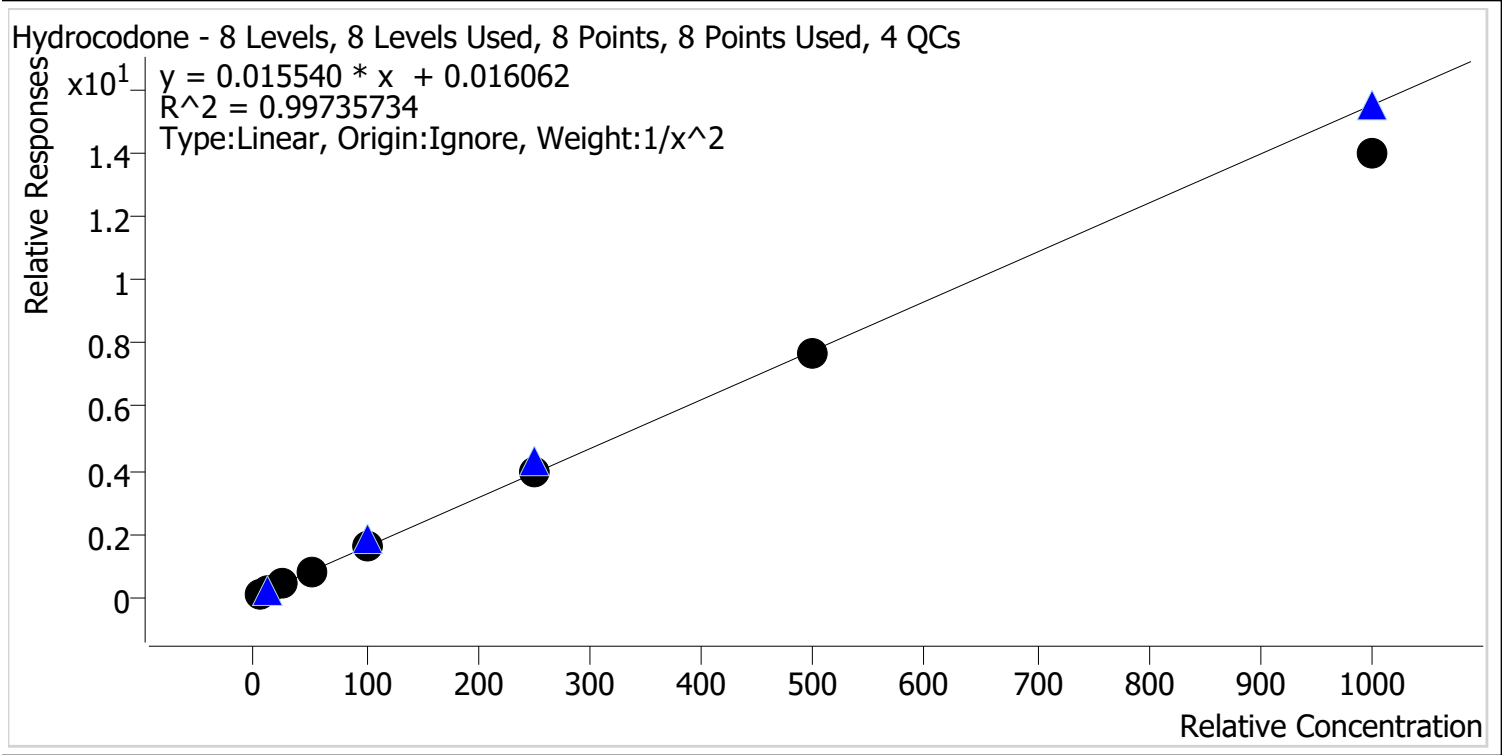
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.2
p1 Cal 2-10ng	2	✓	10.0	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.0
p1 Cal 4-50ng	4	✓	50.0	49.5	98.9
p1 Cal 5-100ng	5	✓	100.0	99.5	99.5
p1 Cal 6-250ng	6	✓	250.0	252.4	101.0
p1 Cal 7-500ng	7	✓	500.0	507.5	101.5
p1 Cal 8-1000ng	8	✓	1000.0	968.6	96.9

AS



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Hydrocodone **Internal Standard** Hydrocodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2-10ng	2	✓	10.0	10.1	101.4
p1 Cal 3 -25ng	3	✓	25.0	25.7	102.9
p1 Cal 4-50ng	4	✓	50.0	51.8	103.7
p1 Cal 5-100ng	5	✓	100.0	103.4	103.4
p1 Cal 6-250ng	6	✓	250.0	254.8	101.9
p1 Cal 7-500ng	7	✓	500.0	491.1	98.2
p1 Cal 8-1000ng	8	✓	1000.0	902.9	90.3

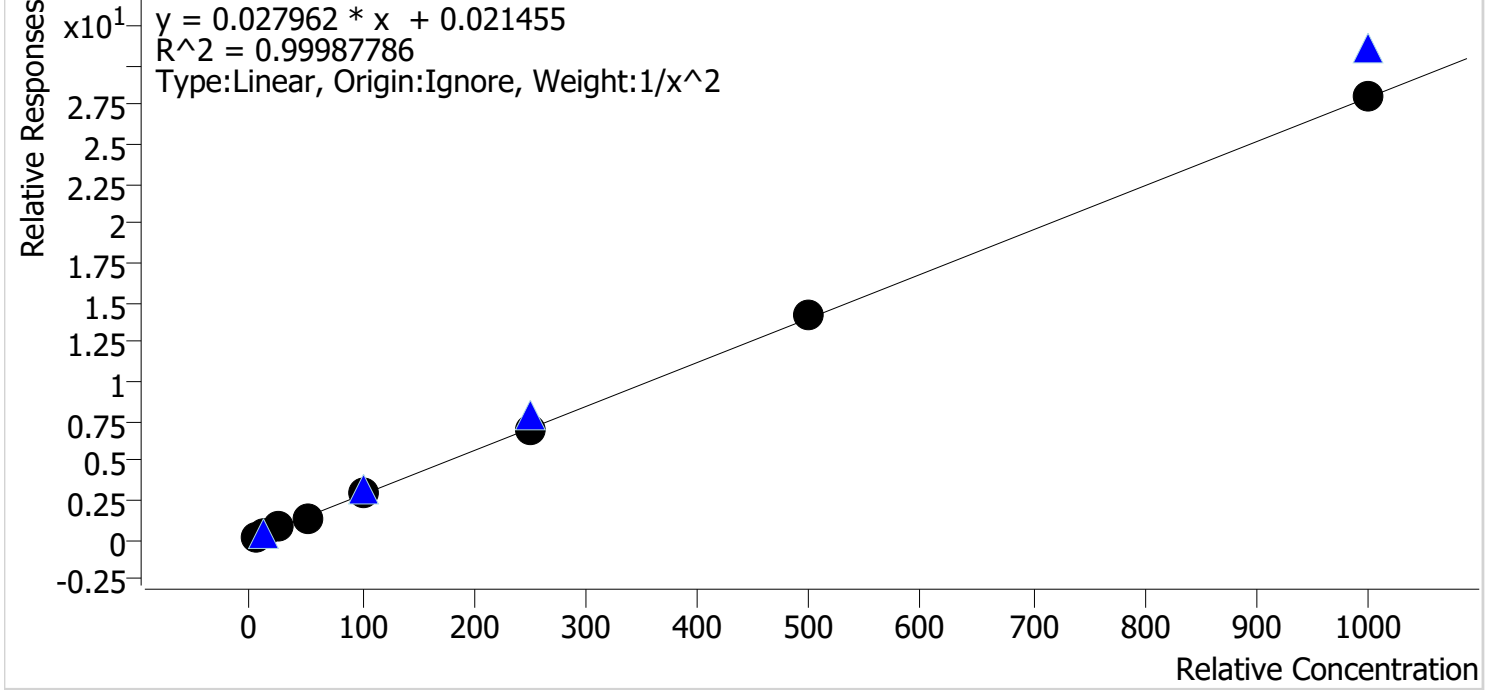
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Hydromorphone **Internal Standard** Hydromorphone-D6

Hydromorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



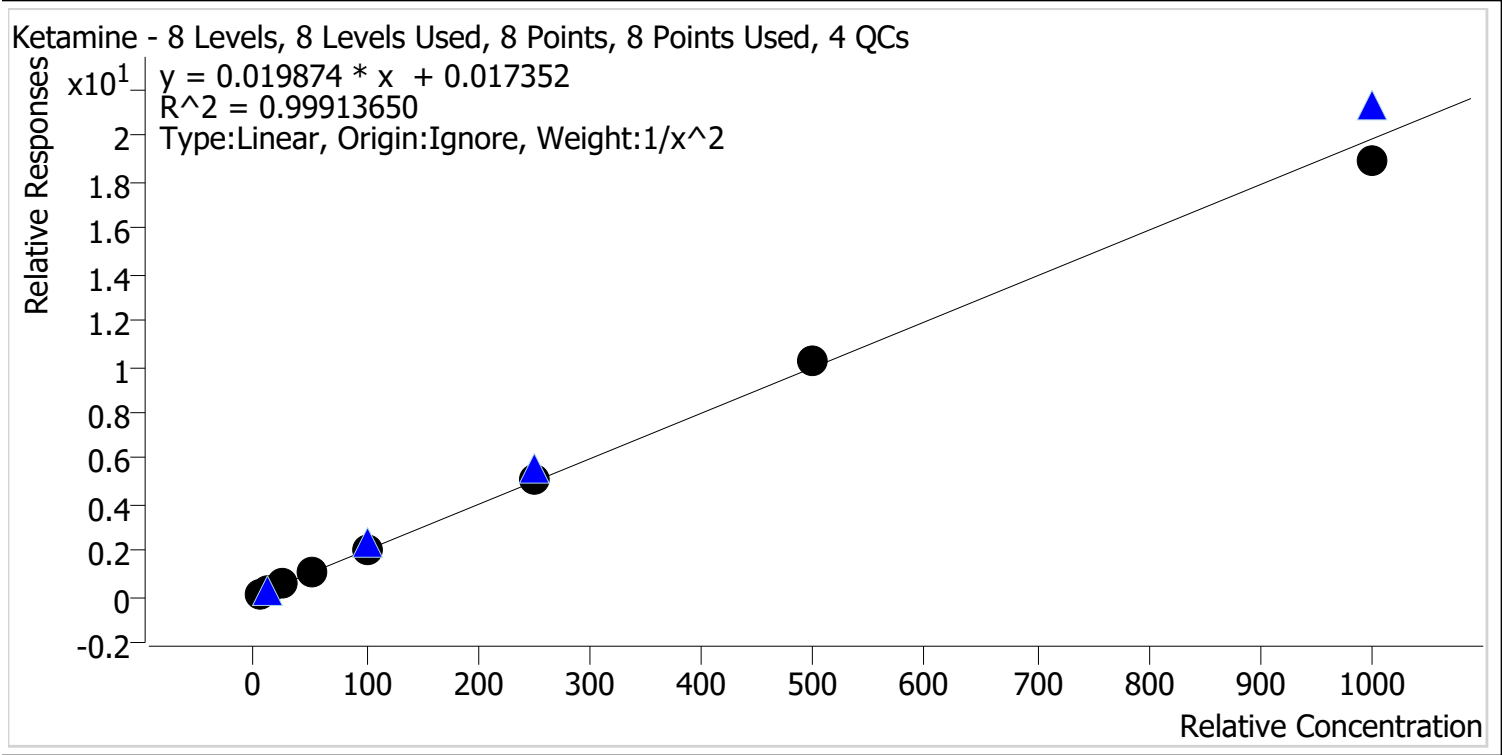
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2-10ng	2	✓	10.0	10.0	99.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.2
p1 Cal 4-50ng	4	✓	50.0	49.4	98.8
p1 Cal 5-100ng	5	✓	100.0	100.4	100.4
p1 Cal 6-250ng	6	✓	250.0	249.2	99.7
p1 Cal 7-500ng	7	✓	500.0	509.6	101.9
p1 Cal 8-1000ng	8	✓	1000.0	1000.4	100.0

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Ketamine **Internal Standard** Ketamine-D4



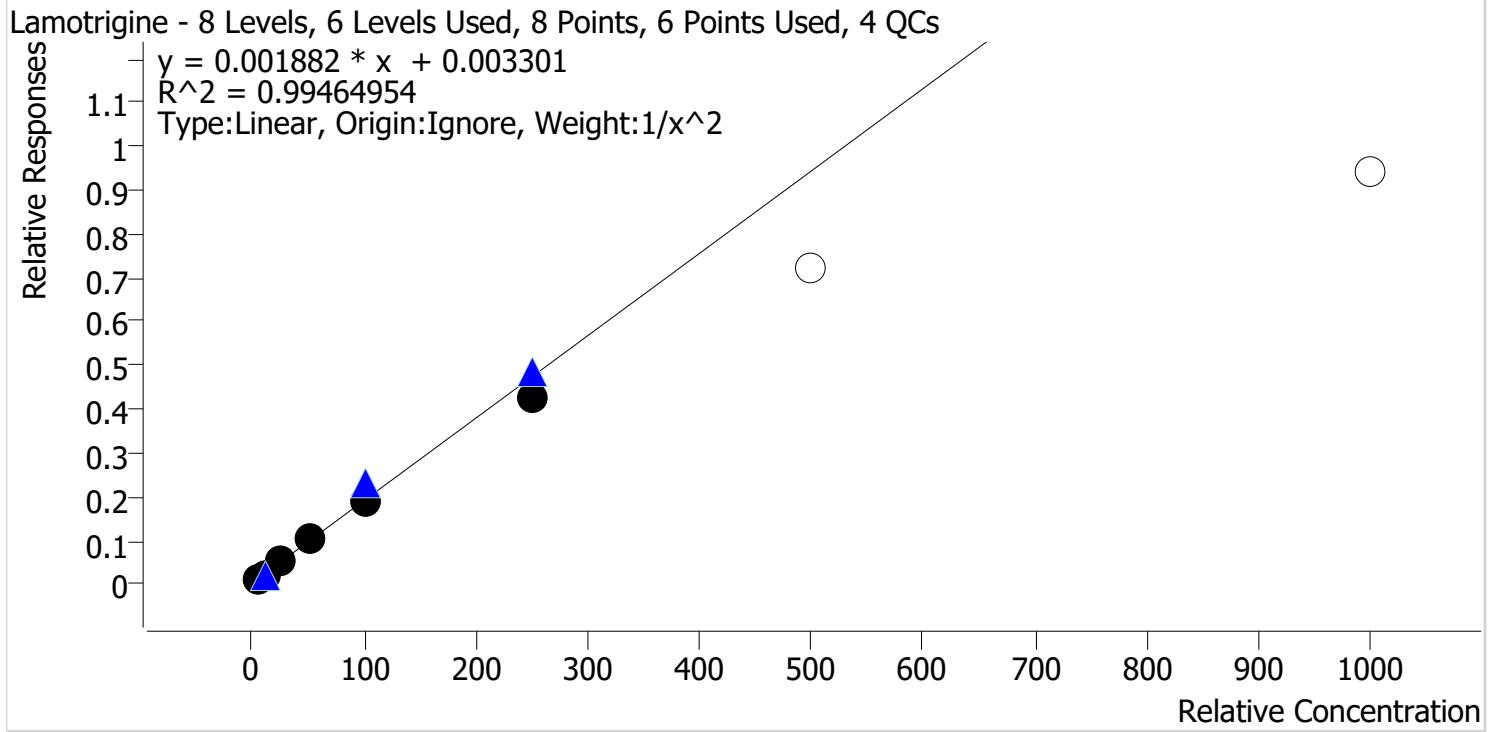
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.7
p1 Cal 2-10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	24.7	98.9
p1 Cal 4-50ng	4	✓	50.0	50.0	100.0
p1 Cal 5-100ng	5	✓	100.0	100.2	100.2
p1 Cal 6-250ng	6	✓	250.0	252.9	101.2
p1 Cal 7-500ng	7	✓	500.0	515.1	103.0
p1 Cal 8-1000ng	8	✓	1000.0	951.0	95.1

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Lamotrigine **Internal Standard** Ketamine-D4



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	10.1	101.1
p1 Cal 3 -25ng	3	✓	25.0	25.5	102.2
p1 Cal 4-50ng	4	✓	50.0	54.3	108.6
p1 Cal 5-100ng	5	✓	100.0	99.4	99.4
p1 Cal 6-250ng	6	✓	250.0	225.7	90.3
* p1 Cal 7-500ng	7	x	500.0	381.4	76.3
* p1 Cal 8-1000ng	8	x	1000.0	500.2	50.0

\*Cal 7 and 8 dropped due to accuracy



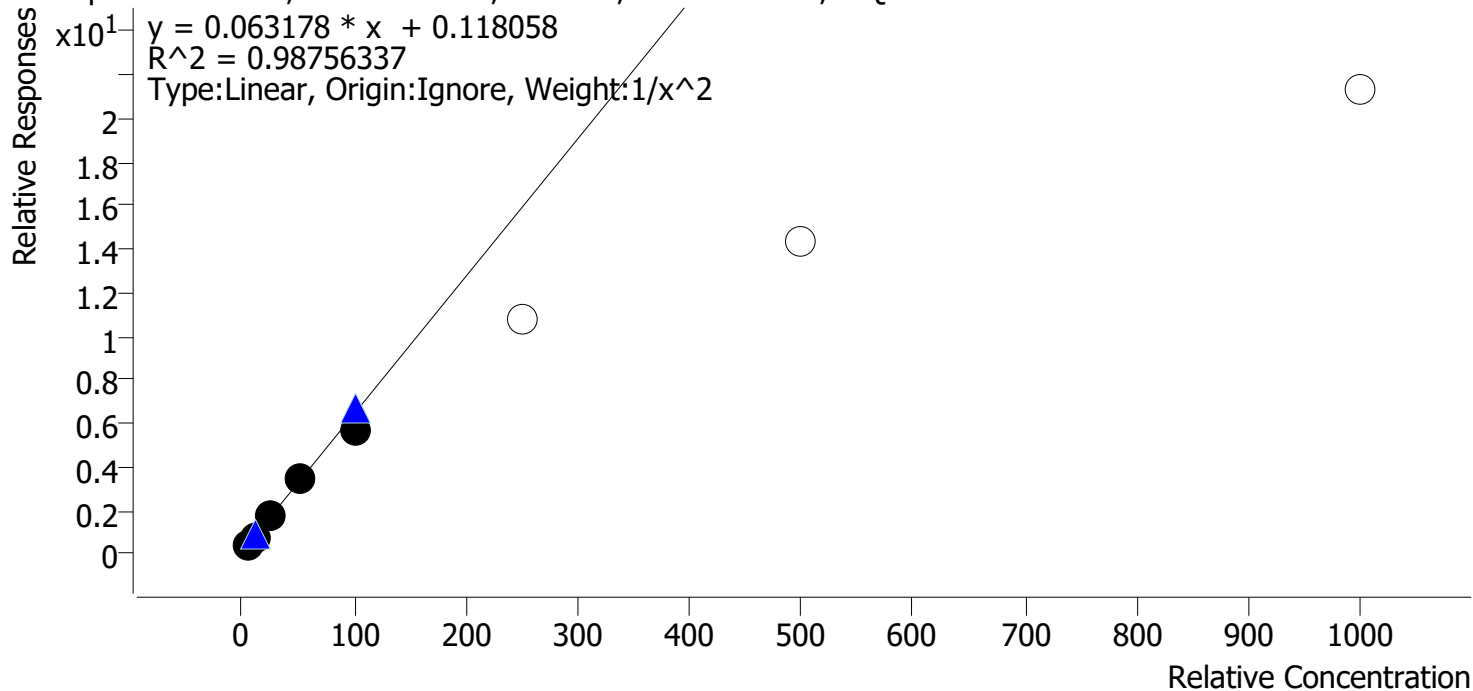
Handwritten initials/signature.



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Lorazepam **Internal Standard** Clonazepam-D4

Lorazepam - 8 Levels, 5 Levels Used, 8 Points, 5 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.7	94.9
p1 Cal 2-10ng	2	✓	10.0	10.8	108.5
p1 Cal 3 -25ng	3	✓	25.0	26.5	105.8
p1 Cal 4-50ng	4	✓	50.0	51.7	103.3
p1 Cal 5-100ng	5	✓	100.0	87.5	87.5
p1 Cal 6-250ng	6	x	250.0	167.9	67.1
p1 Cal 7-500ng	7	x	500.0	225.1	45.0
p1 Cal 8-1000ng	8	x	1000.0	335.7	33.6

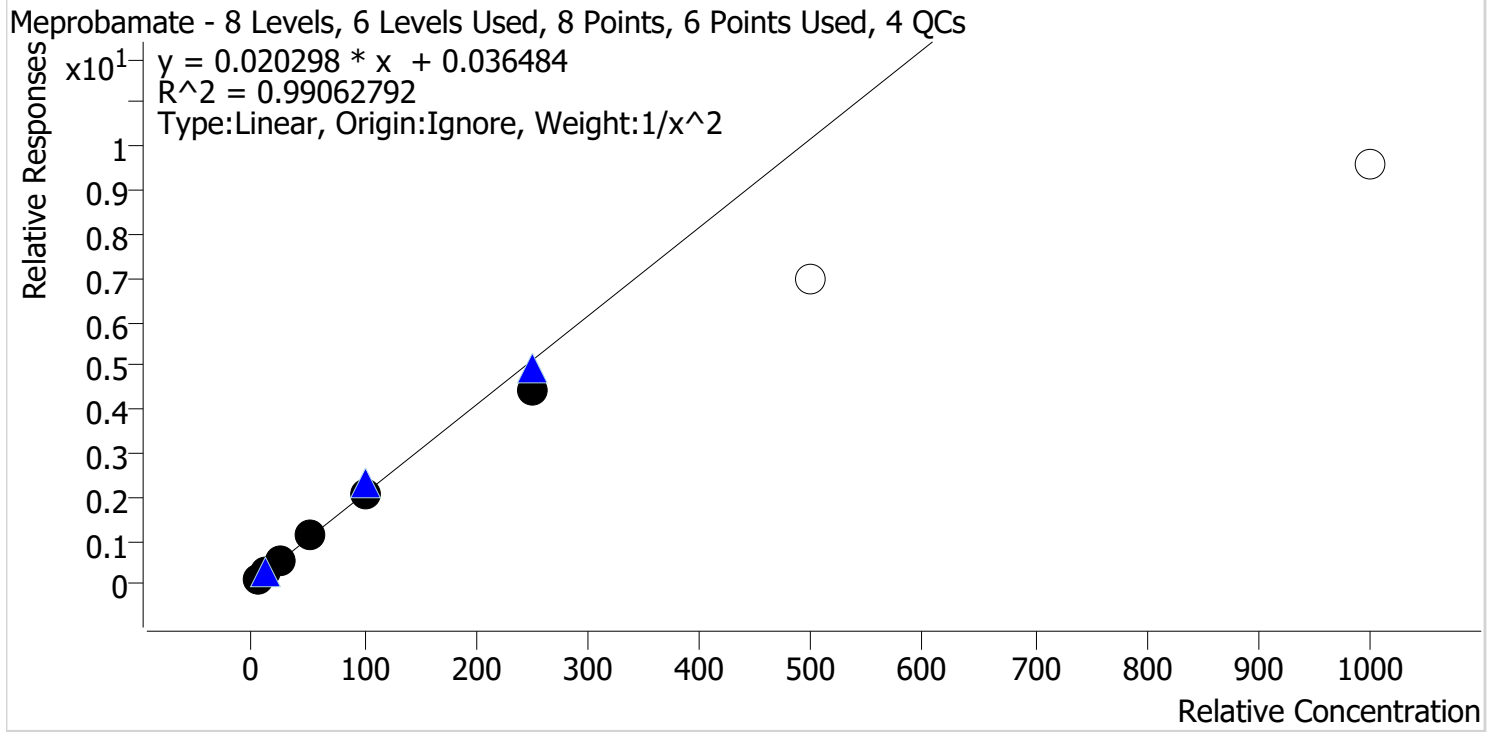
\*Cal 6, 7, and 8 dropped due to accuracy

Handwritten initials/signature.



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Meprobamate **Internal Standard** Meprobamate-D7



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.9
p1 Cal 2-10ng	2	✓	10.0	10.5	104.9
p1 Cal 3 -25ng	3	✓	25.0	26.6	106.5
p1 Cal 4-50ng	4	✓	50.0	53.3	106.5
p1 Cal 5-100ng	5	✓	100.0	99.8	99.8
p1 Cal 6-250ng	6	✓	250.0	215.8	86.3
* p1 Cal 7-500ng	7	x	500.0	343.3	68.7
* p1 Cal 8-1000ng	8	x	1000.0	471.9	47.2

\*Cal 7 and 8 dropped due to accuracy

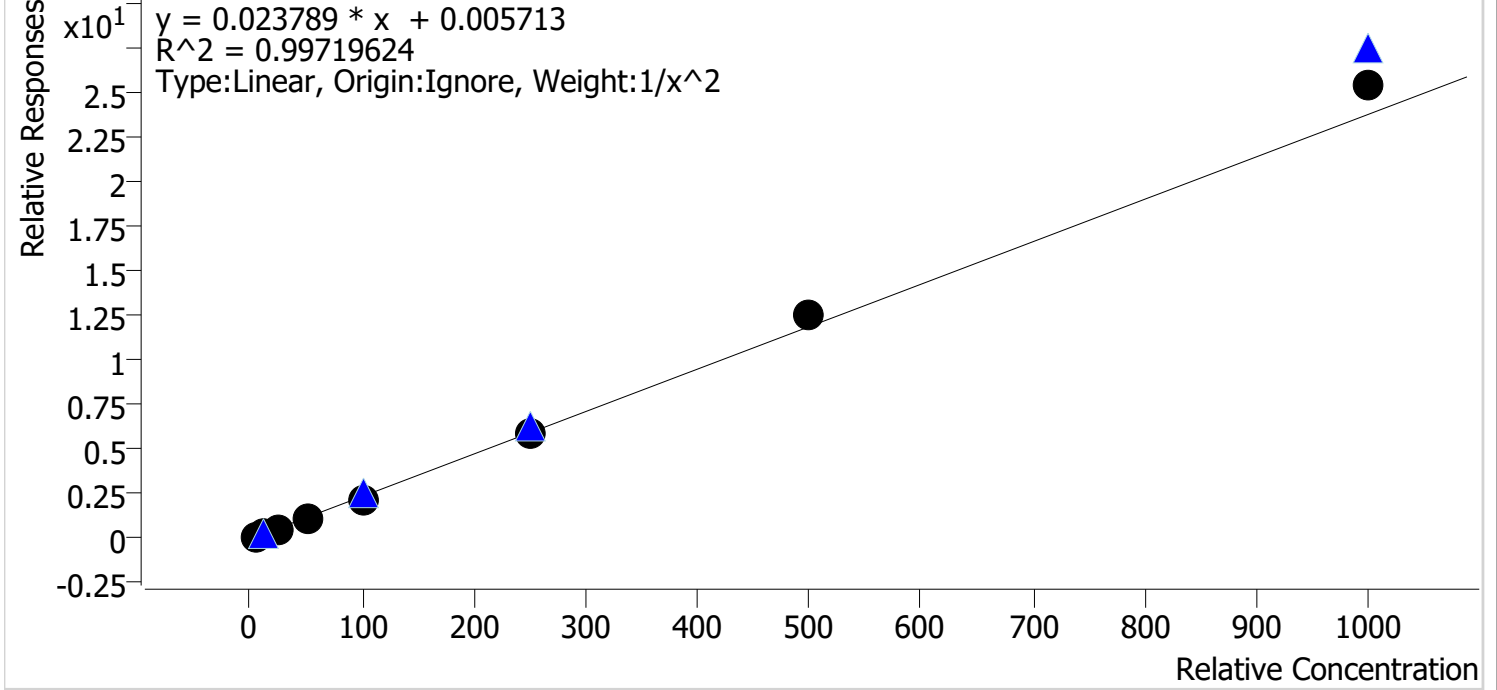
Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Methadone **Internal Standard** Methadone-D9

Methadone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.5
p1 Cal 2-10ng	2	✓	10.0	9.8	98.2
p1 Cal 3 -25ng	3	✓	25.0	23.5	94.0
p1 Cal 4-50ng	4	✓	50.0	48.6	97.3
p1 Cal 5-100ng	5	✓	100.0	95.3	95.3
p1 Cal 6-250ng	6	✓	250.0	251.8	100.7
p1 Cal 7-500ng	7	✓	500.0	526.4	105.3
p1 Cal 8-1000ng	8	✓	1000.0	1067.3	106.7

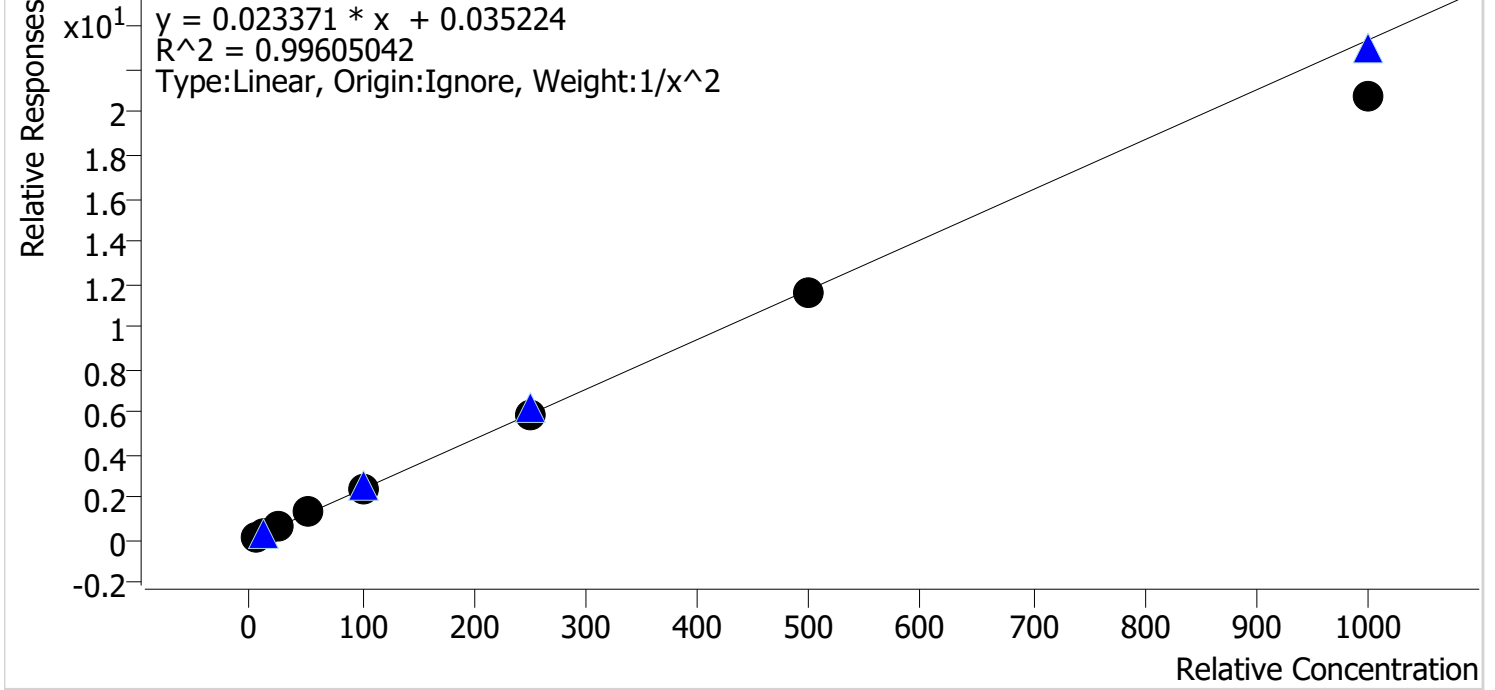
AS



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Methamphetamine **Internal Standard** Methamphetamine-D11

Methamphetamine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	96.2
p1 Cal 2-10ng	2	✓	10.0	10.5	105.0
p1 Cal 3 -25ng	3	✓	25.0	25.9	103.5
p1 Cal 4-50ng	4	✓	50.0	53.0	105.9
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	252.3	100.9
p1 Cal 7-500ng	7	✓	500.0	492.0	98.4
p1 Cal 8-1000ng	8	✓	1000.0	891.2	89.1

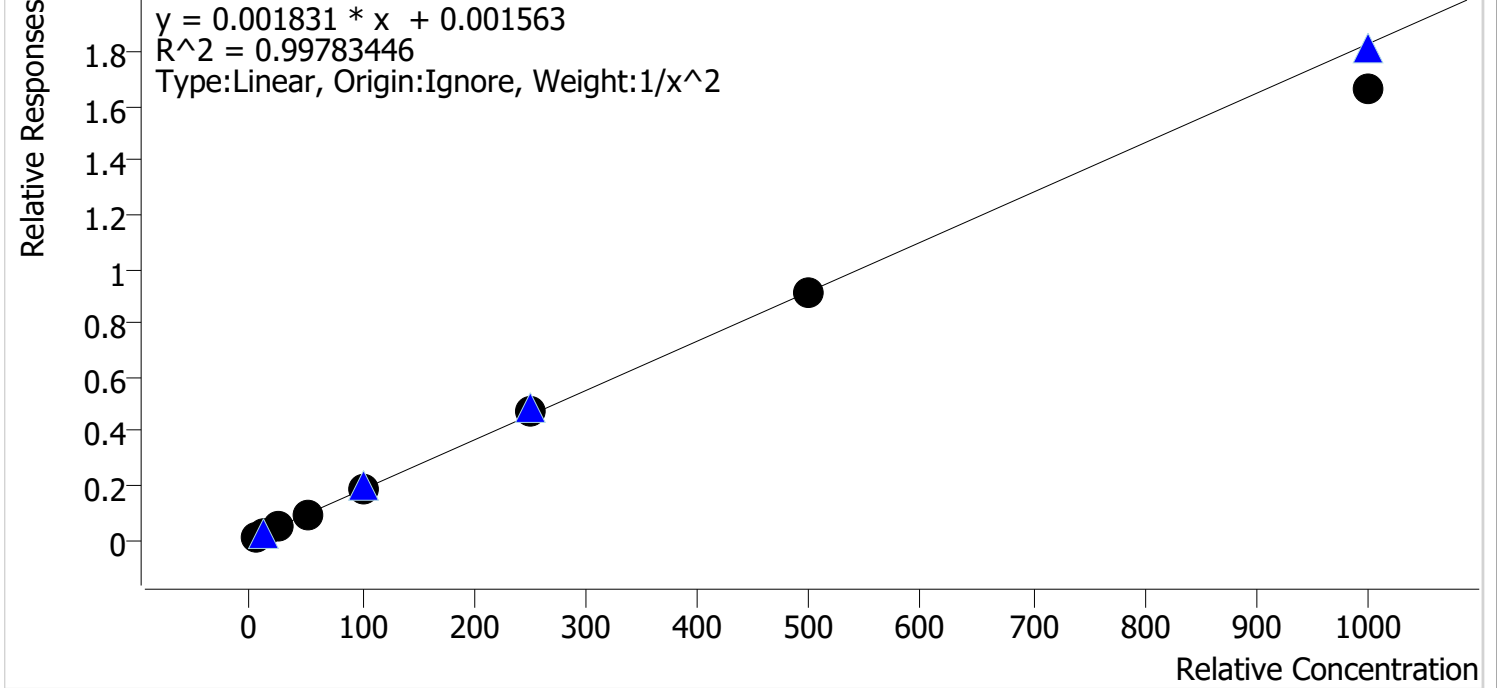
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Metoprolol **Internal Standard** Tramadol-13C-D3

Metoprolol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



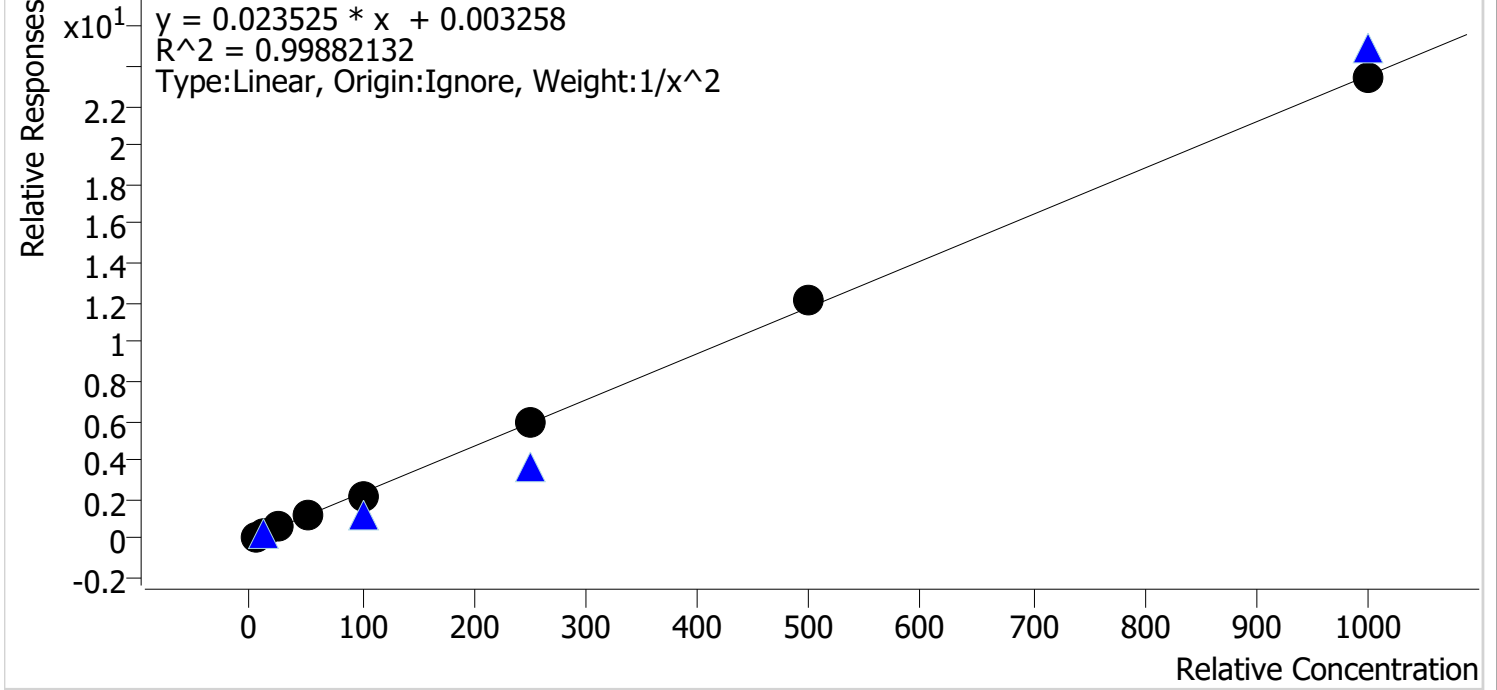
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.5
p1 Cal 2-10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	25.0	99.9
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	103.8	103.8
p1 Cal 6-250ng	6	✓	250.0	257.9	103.2
p1 Cal 7-500ng	7	✓	500.0	497.4	99.5
p1 Cal 8-1000ng	8	✓	1000.0	911.4	91.1



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Mirtazapine **Internal Standard** alpha-PVP-d8

Mirtazapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

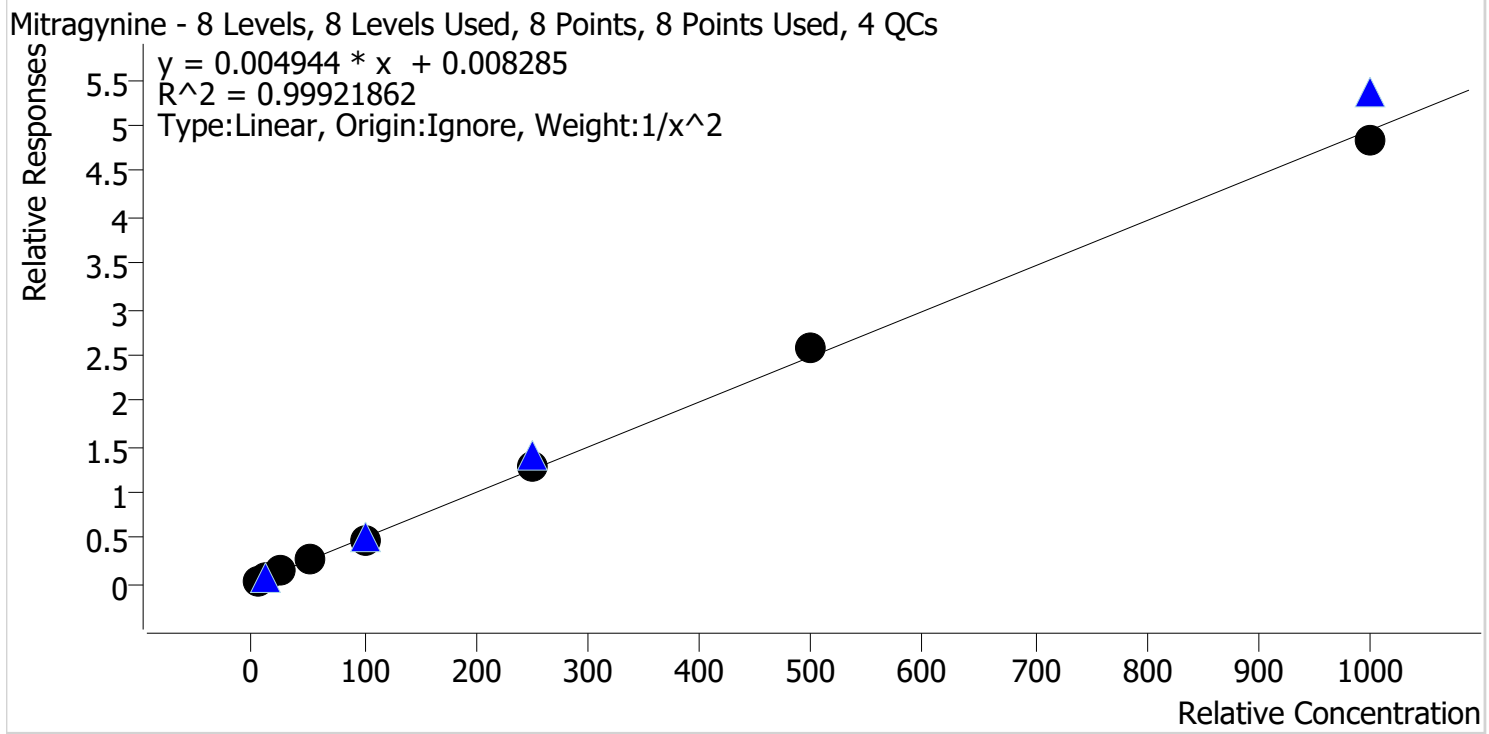


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.9
p1 Cal 2-10ng	2	✓	10.0	10.2	102.3
p1 Cal 3 -25ng	3	✓	25.0	25.4	101.5
p1 Cal 4-50ng	4	✓	50.0	49.9	99.7
p1 Cal 5-100ng	5	✓	100.0	93.7	93.7
p1 Cal 6-250ng	6	✓	250.0	251.6	100.6
p1 Cal 7-500ng	7	✓	500.0	517.8	103.6
p1 Cal 8-1000ng	8	✓	1000.0	997.9	99.8



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Mitragynine **Internal Standard** Methadone-D9



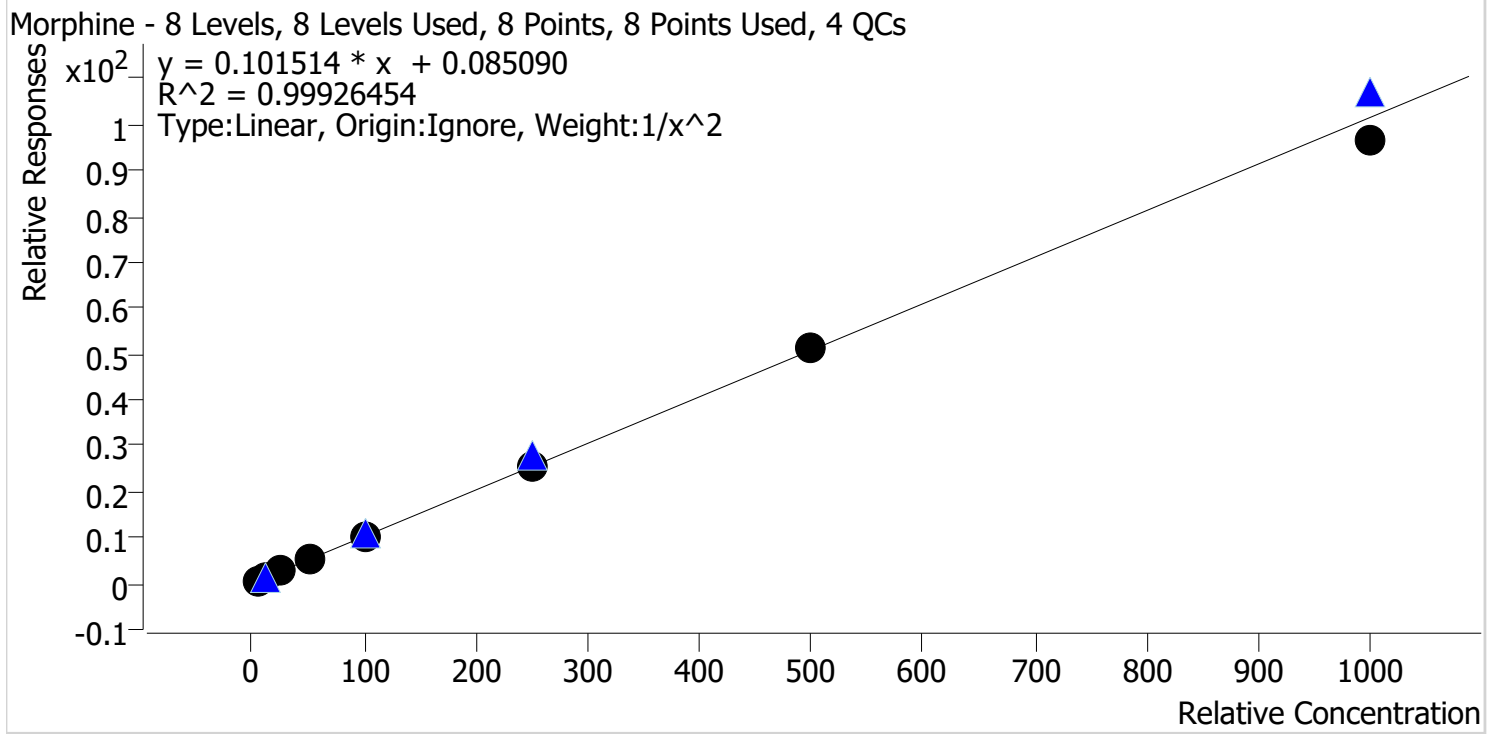
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.2
p1 Cal 2-10ng	2	✓	10.0	9.7	97.4
p1 Cal 3 -25ng	3	✓	25.0	25.0	100.0
p1 Cal 4-50ng	4	✓	50.0	50.9	101.7
p1 Cal 5-100ng	5	✓	100.0	97.2	97.2
p1 Cal 6-250ng	6	✓	250.0	253.5	101.4
p1 Cal 7-500ng	7	✓	500.0	518.3	103.7
p1 Cal 8-1000ng	8	✓	1000.0	973.9	97.4

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Morphine **Internal Standard** Morphine-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2-10ng	2	✓	10.0	9.9	99.4
p1 Cal 3 -25ng	3	✓	25.0	25.6	102.3
p1 Cal 4-50ng	4	✓	50.0	51.1	102.3
p1 Cal 5-100ng	5	✓	100.0	100.9	100.9
p1 Cal 6-250ng	6	✓	250.0	248.8	99.5
p1 Cal 7-500ng	7	✓	500.0	505.6	101.1
p1 Cal 8-1000ng	8	✓	1000.0	949.5	94.9



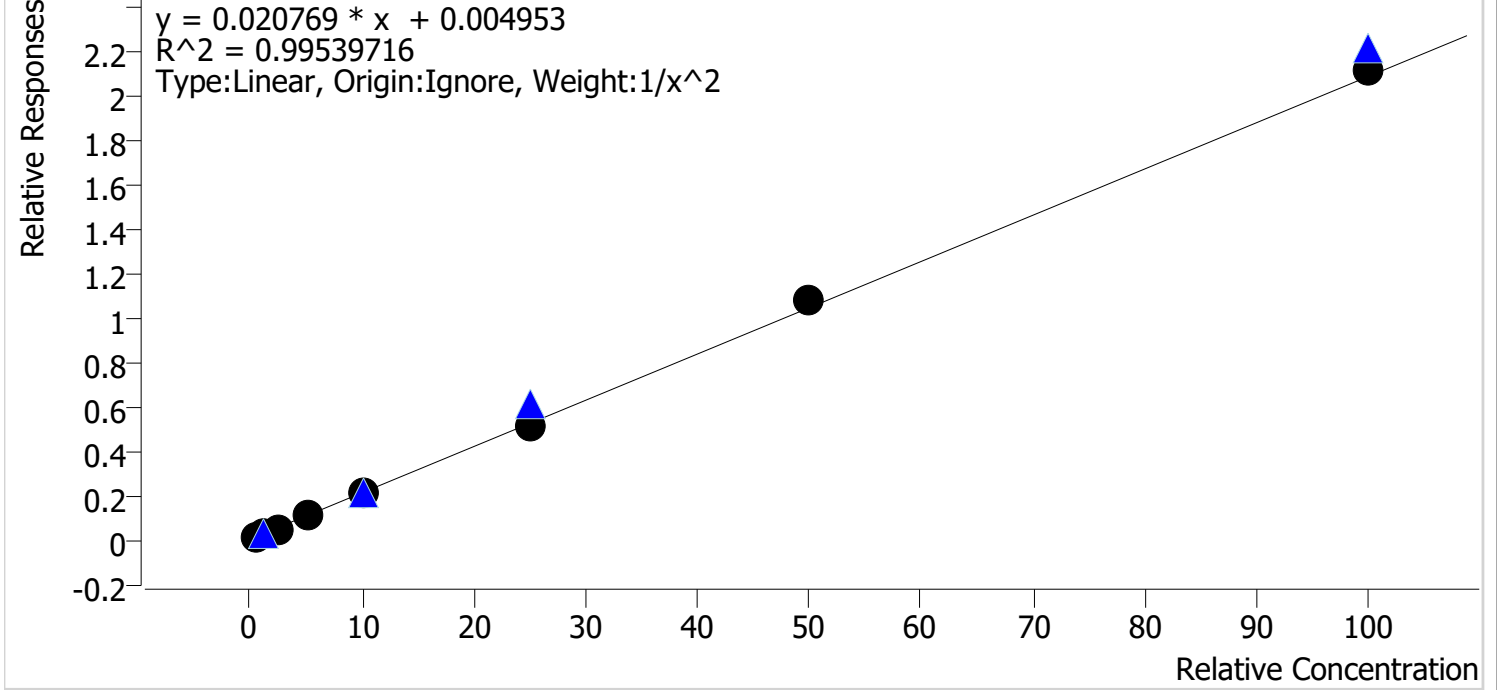
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Norbuprenorphine **Internal Standard** Norbuprenorphine-D3

Norbuprenorphine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	97.4
p1 Cal 2-10ng	2	✓	1.0	1.1	109.4
p1 Cal 3 -25ng	3	✓	2.5	2.2	89.1
p1 Cal 4-50ng	4	✓	5.0	5.0	99.6
p1 Cal 5-100ng	5	✓	10.0	10.2	102.4
p1 Cal 6-250ng	6	✓	25.0	24.2	97.0
p1 Cal 7-500ng	7	✓	50.0	51.7	103.3
p1 Cal 8-1000ng	8	✓	100.0	101.8	101.8

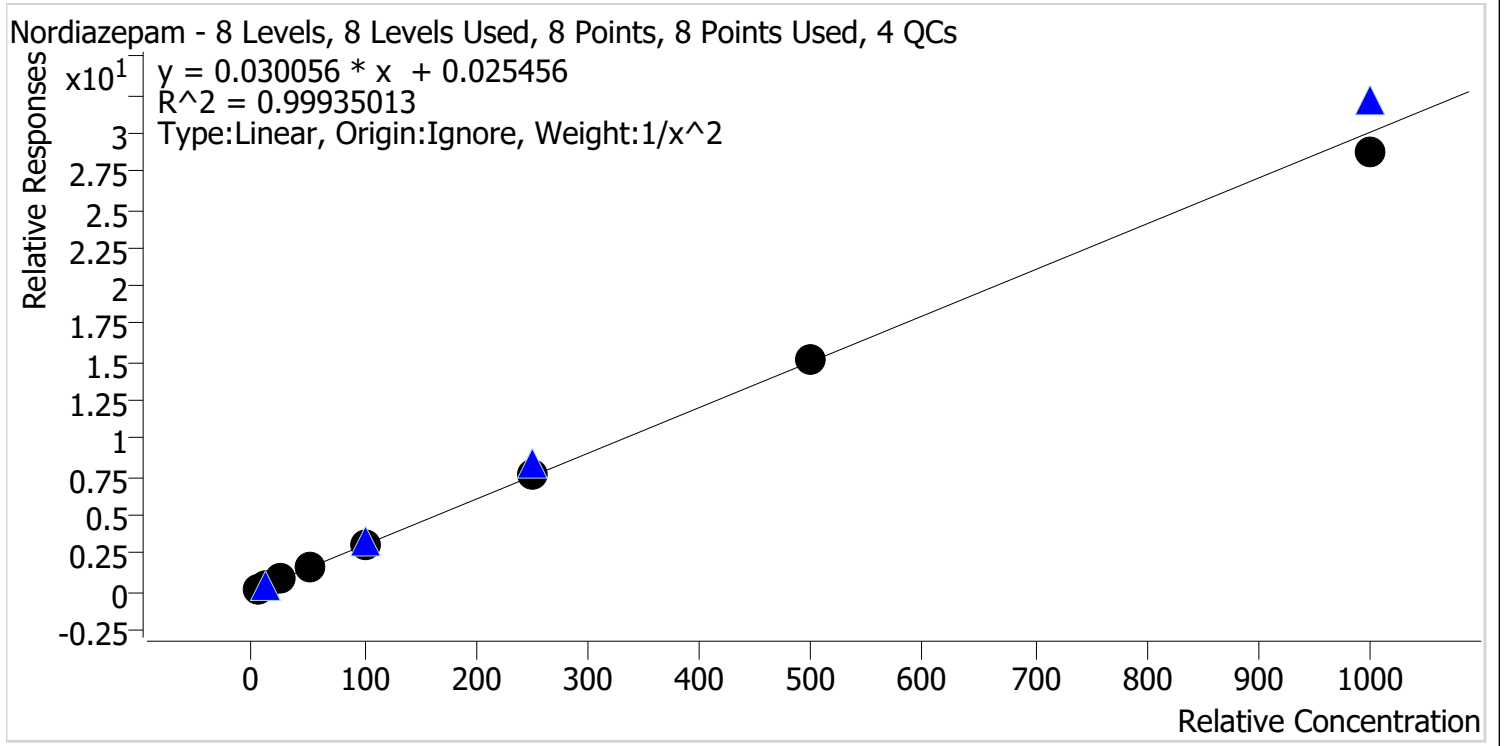
Compound not evaluated due to the ratio being out

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Nordiazepam Internal Standard Nordiazepam-D5



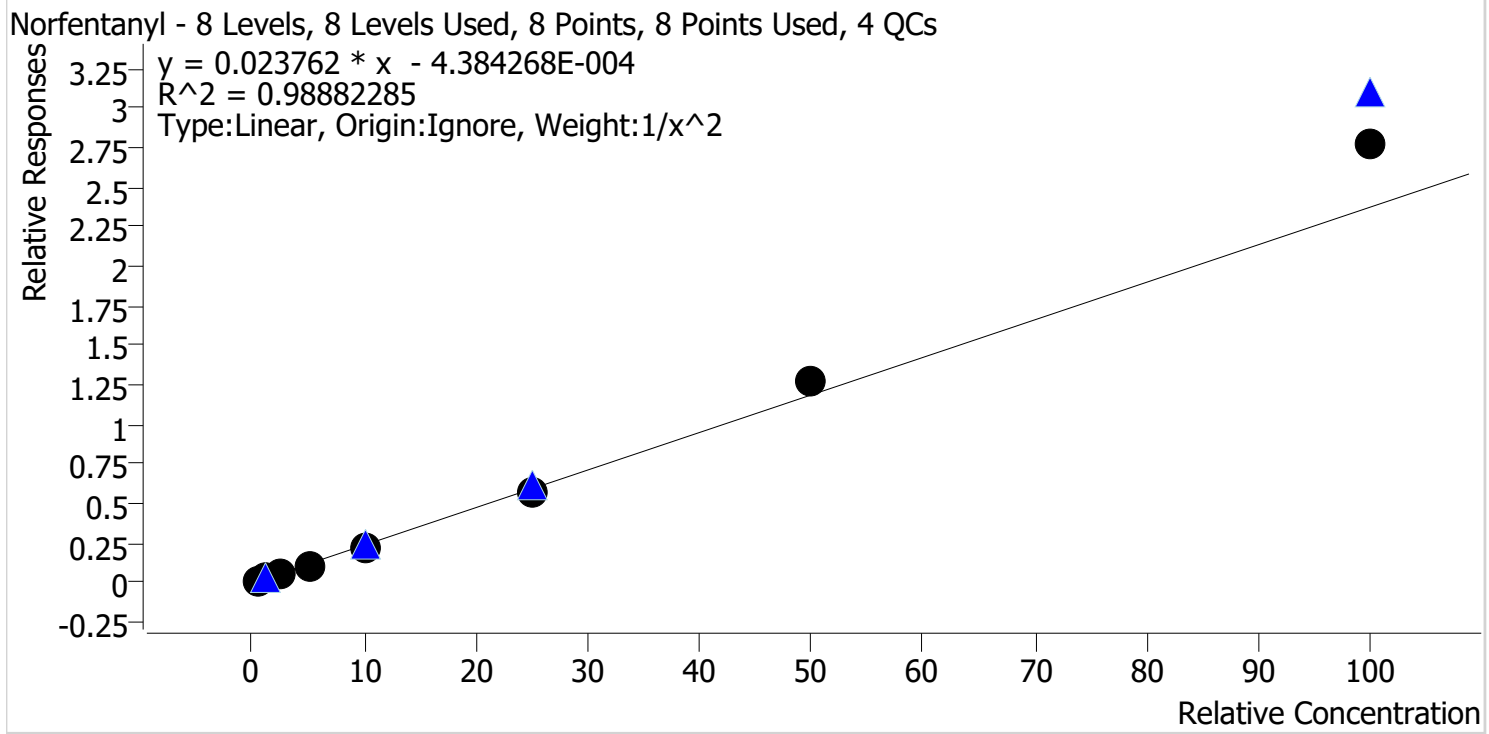
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	99.0
p1 Cal 2-10ng	2	✓	10.0	10.2	102.4
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	49.3	98.6
p1 Cal 5-100ng	5	✓	100.0	101.3	101.3
p1 Cal 6-250ng	6	✓	250.0	256.6	102.6
p1 Cal 7-500ng	7	✓	500.0	503.9	100.8
p1 Cal 8-1000ng	8	✓	1000.0	960.2	96.0

Handwritten initials/signature.



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Norfentanyl Internal Standard Norfentanyl-D5



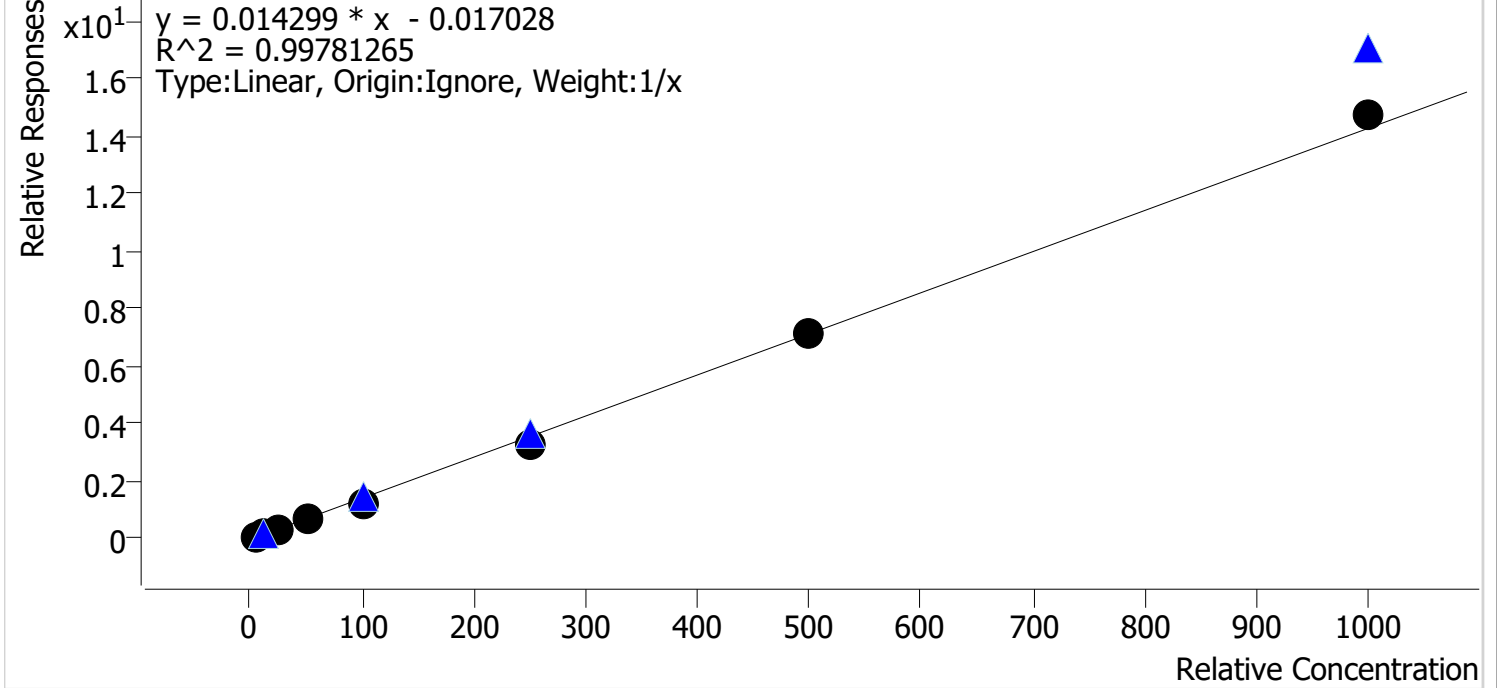
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	0.5	0.5	105.8
p1 Cal 2-10ng	2	✓	1.0	0.9	93.6
p1 Cal 3 -25ng	3	✓	2.5	2.3	90.8
p1 Cal 4-50ng	4	✓	5.0	4.7	94.8
p1 Cal 5-100ng	5	✓	10.0	9.4	93.7
p1 Cal 6-250ng	6	✓	25.0	24.1	96.2
p1 Cal 7-500ng	7	✓	50.0	54.0	108.0
p1 Cal 8-1000ng	8	✓	100.0	117.1	117.1



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Norhydrocodone **Internal Standard** Norhydrocodone-D3

Norhydrocodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



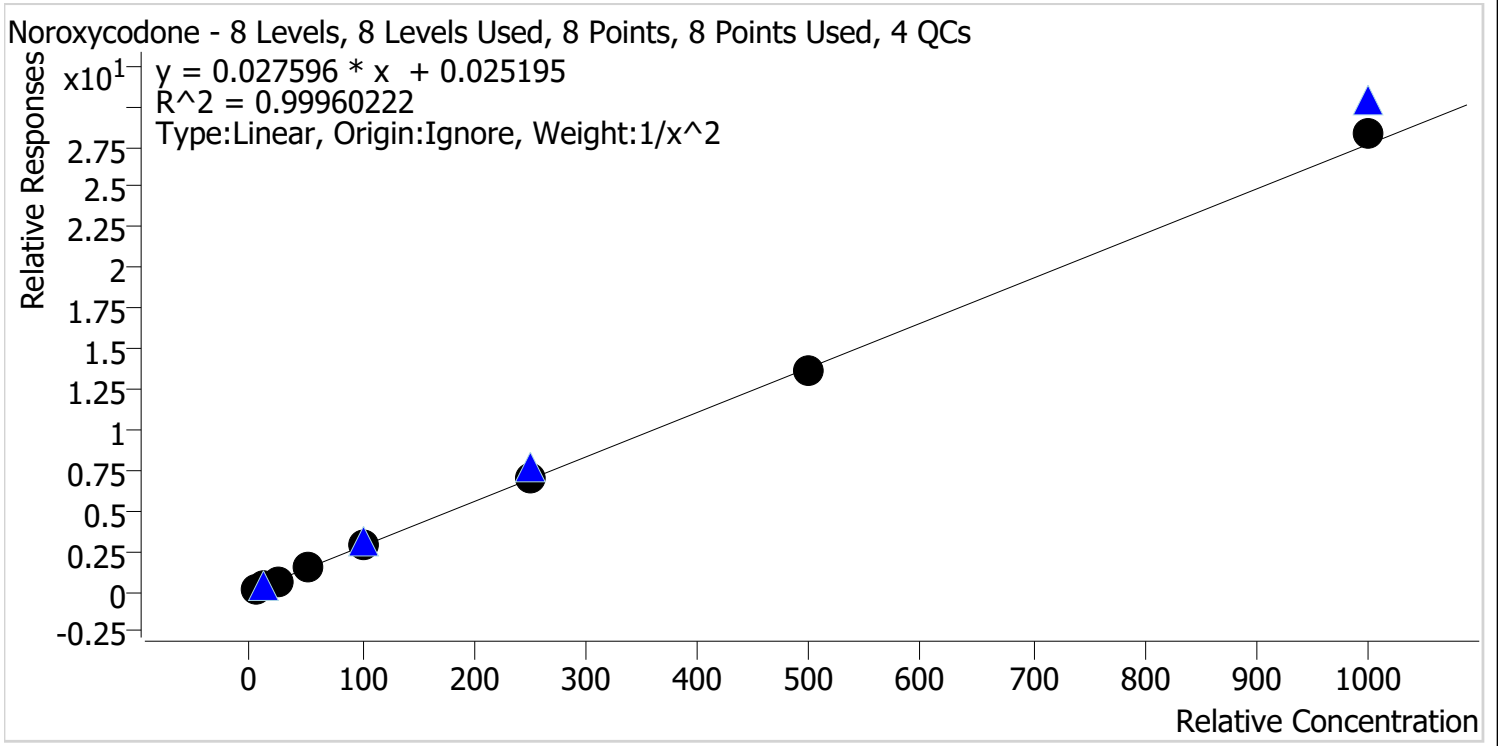
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	6.3	125.0
p1 Cal 2-10ng	2	✓	10.0	10.2	101.6
p1 Cal 3 -25ng	3	✓	25.0	23.6	94.5
p1 Cal 4-50ng	4	✓	50.0	46.7	93.3
p1 Cal 5-100ng	5	✓	100.0	89.2	89.2
p1 Cal 6-250ng	6	✓	250.0	234.2	93.7
p1 Cal 7-500ng	7	✓	500.0	497.0	99.4
p1 Cal 8-1000ng	8	✓	1000.0	1032.9	103.3

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Noroxycodone **Internal Standard** Noroxycodone-D3



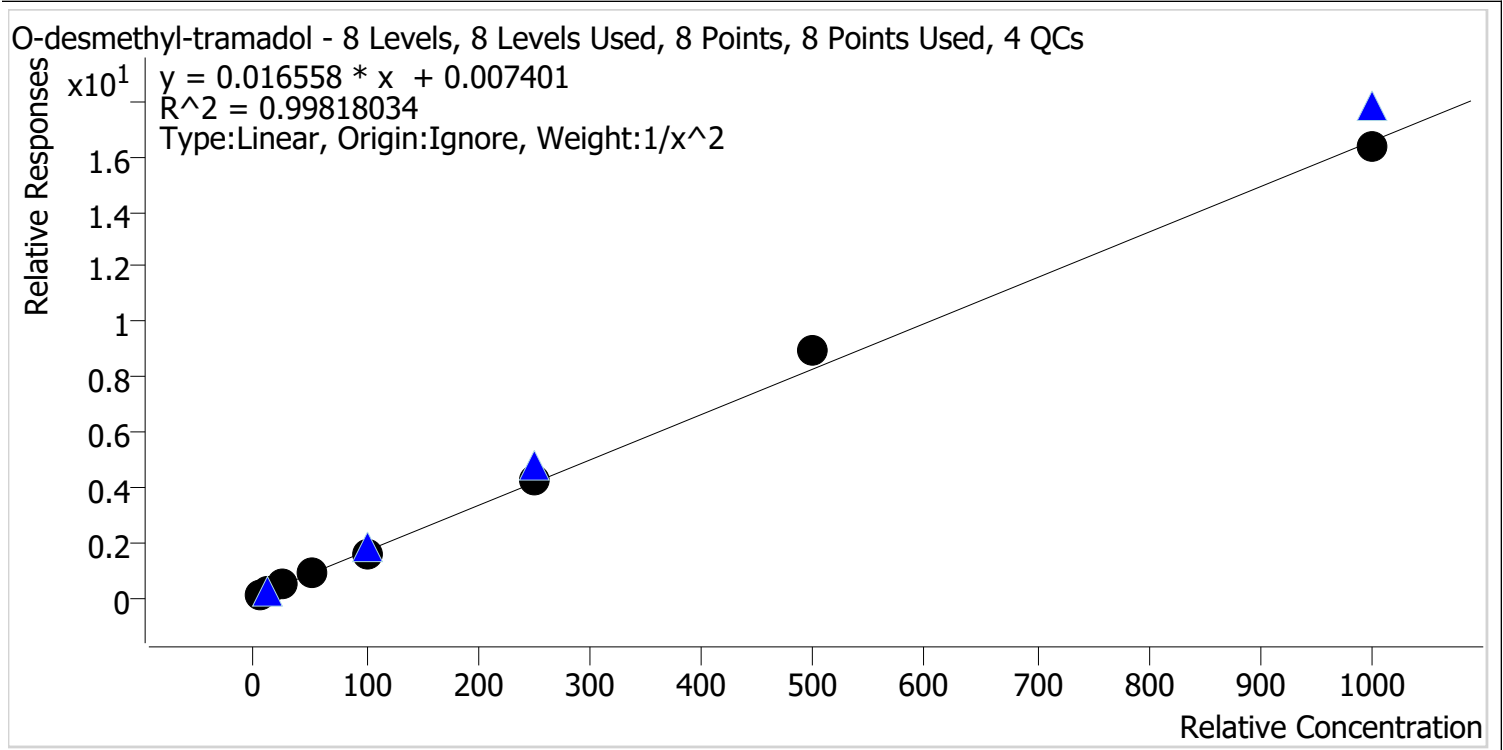
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.3
p1 Cal 2-10ng	2	✓	10.0	10.0	100.4
p1 Cal 3 -25ng	3	✓	25.0	24.3	97.3
p1 Cal 4-50ng	4	✓	50.0	49.8	99.6
p1 Cal 5-100ng	5	✓	100.0	102.0	102.0
p1 Cal 6-250ng	6	✓	250.0	249.6	99.9
p1 Cal 7-500ng	7	✓	500.0	490.8	98.2
p1 Cal 8-1000ng	8	✓	1000.0	1024.3	102.4

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** O-desmethyl-tramadol **Internal Standard** O-desmethyl-tramadol-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.4
p1 Cal 2-10ng	2	✓	10.0	9.9	99.0
p1 Cal 3 -25ng	3	✓	25.0	24.2	96.9
p1 Cal 4-50ng	4	✓	50.0	48.6	97.2
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	256.7	102.7
p1 Cal 7-500ng	7	✓	500.0	537.5	107.5
p1 Cal 8-1000ng	8	✓	1000.0	984.5	98.5

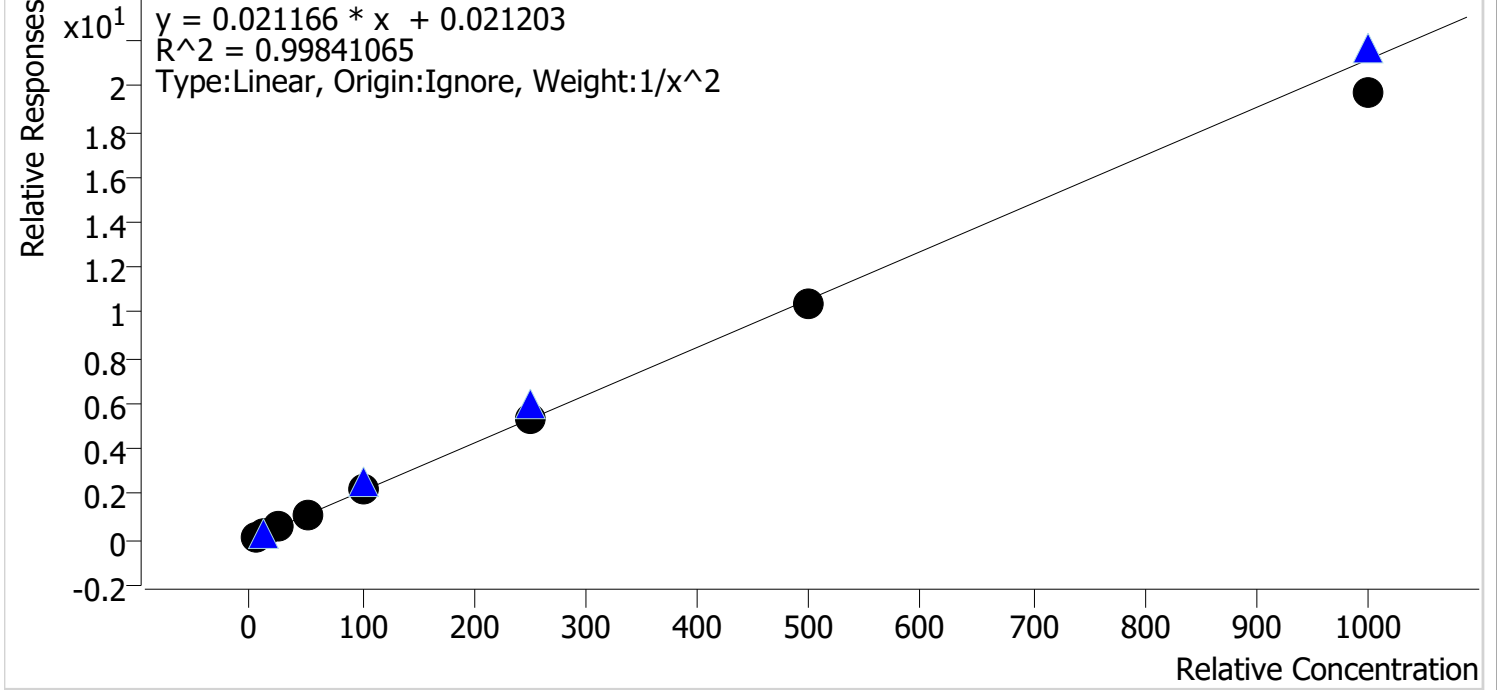
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Oxazepam **Internal Standard** Oxazepam-D5

Oxazepam - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



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	10.3	102.6
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.4
p1 Cal 4-50ng	4	✓	50.0	51.7	103.4
p1 Cal 5-100ng	5	✓	100.0	103.2	103.2
p1 Cal 6-250ng	6	✓	250.0	253.8	101.5
p1 Cal 7-500ng	7	✓	500.0	492.3	98.5
p1 Cal 8-1000ng	8	✓	1000.0	931.0	93.1

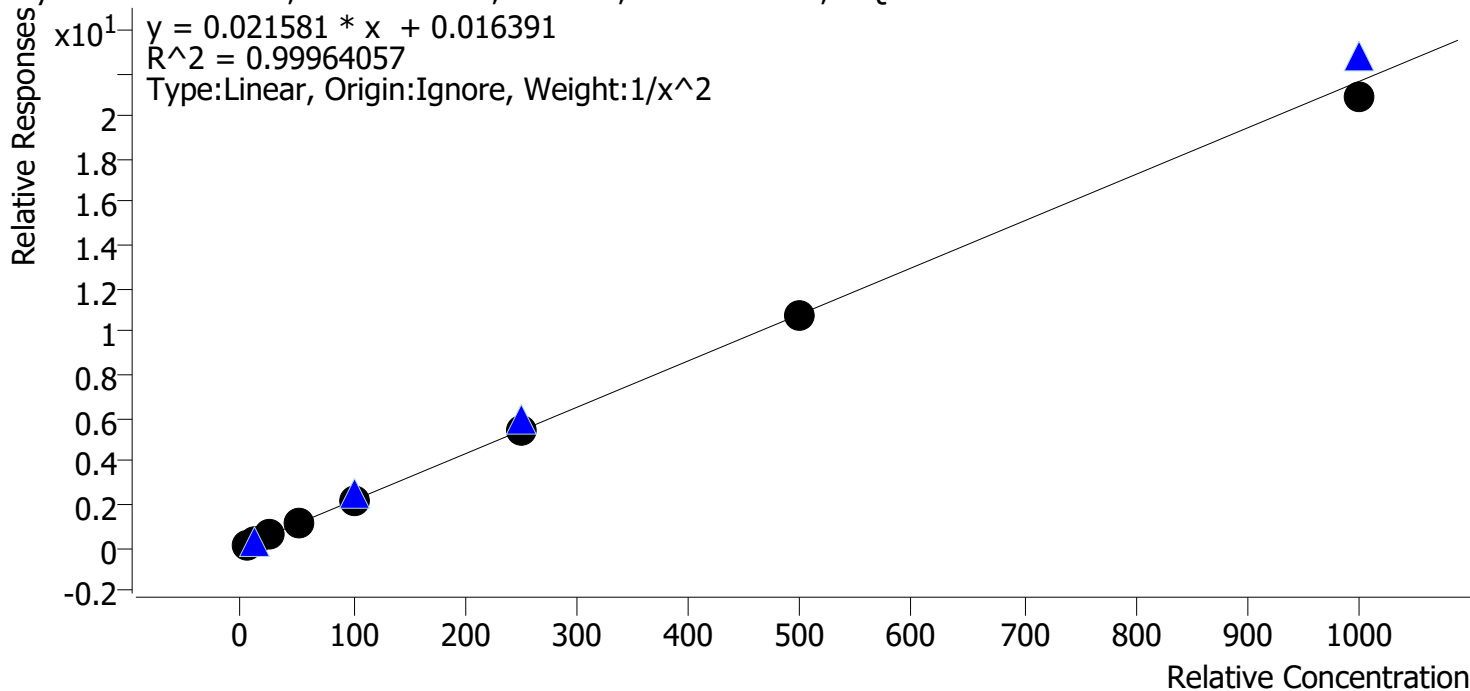
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Oxycodone **Internal Standard** Oxycodone-D6

Oxycodone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	99.6
p1 Cal 2-10ng	2	✓	10.0	10.0	100.0
p1 Cal 3 -25ng	3	✓	25.0	25.3	101.3
p1 Cal 4-50ng	4	✓	50.0	50.8	101.6
p1 Cal 5-100ng	5	✓	100.0	101.4	101.4
p1 Cal 6-250ng	6	✓	250.0	250.0	100.0
p1 Cal 7-500ng	7	✓	500.0	499.1	99.8
p1 Cal 8-1000ng	8	✓	1000.0	964.3	96.4



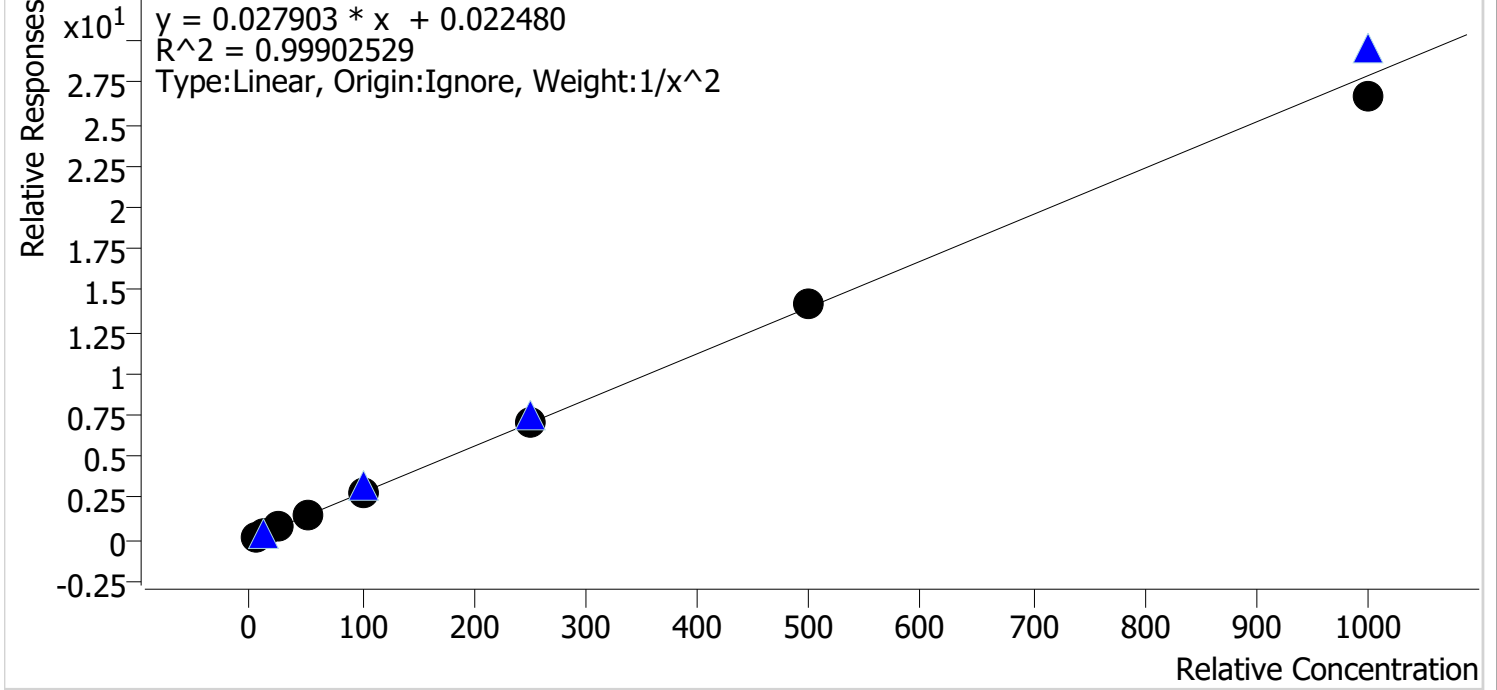
28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Oxymorphone **Internal Standard** Oxymorphone-D3

Oxymorphone - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs

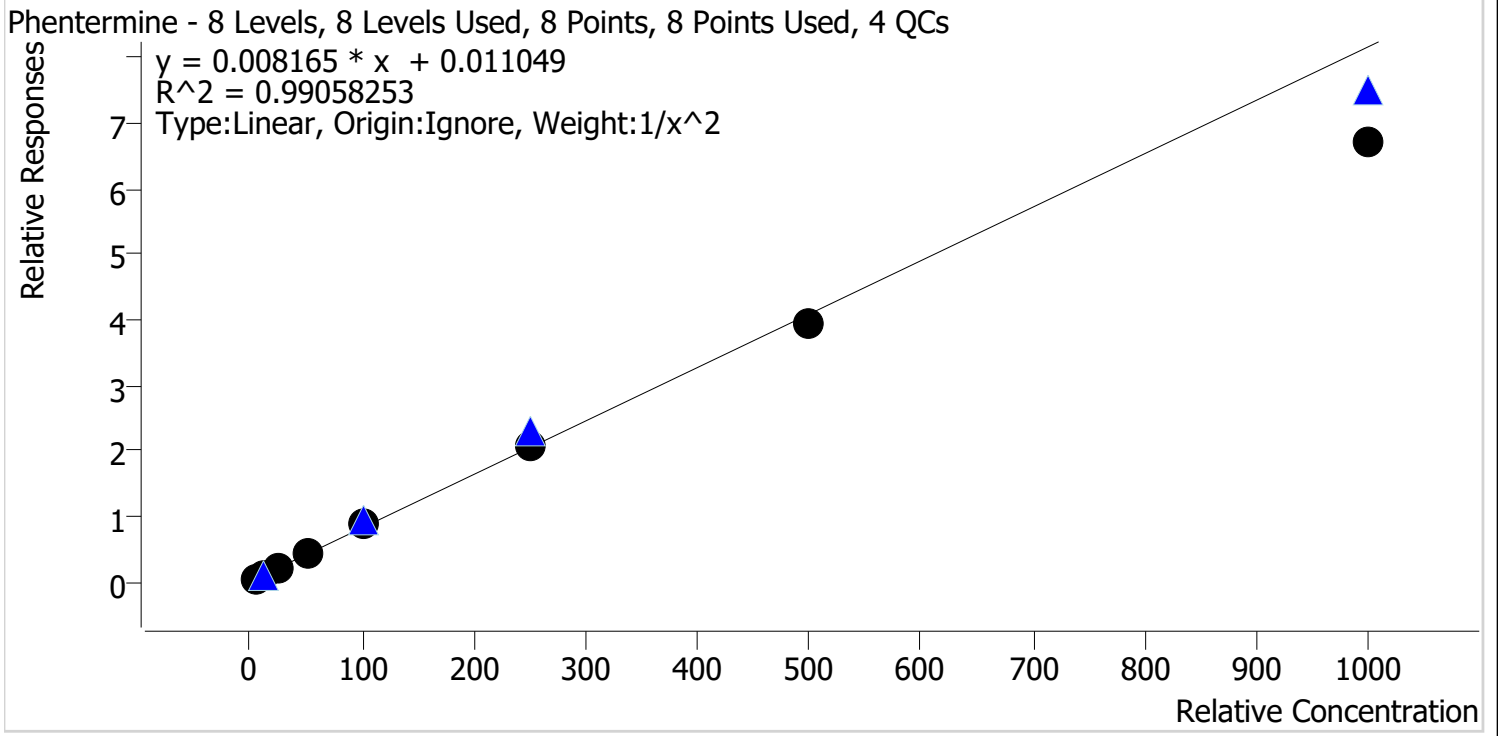


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.3
p1 Cal 2-10ng	2	✓	10.0	10.4	103.9
p1 Cal 3 -25ng	3	✓	25.0	24.8	99.3
p1 Cal 4-50ng	4	✓	50.0	49.1	98.3
p1 Cal 5-100ng	5	✓	100.0	101.2	101.2
p1 Cal 6-250ng	6	✓	250.0	253.6	101.4
p1 Cal 7-500ng	7	✓	500.0	510.9	102.2
p1 Cal 8-1000ng	8	✓	1000.0	953.8	95.4



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Phentermine **Internal Standard** Phentermine-D5



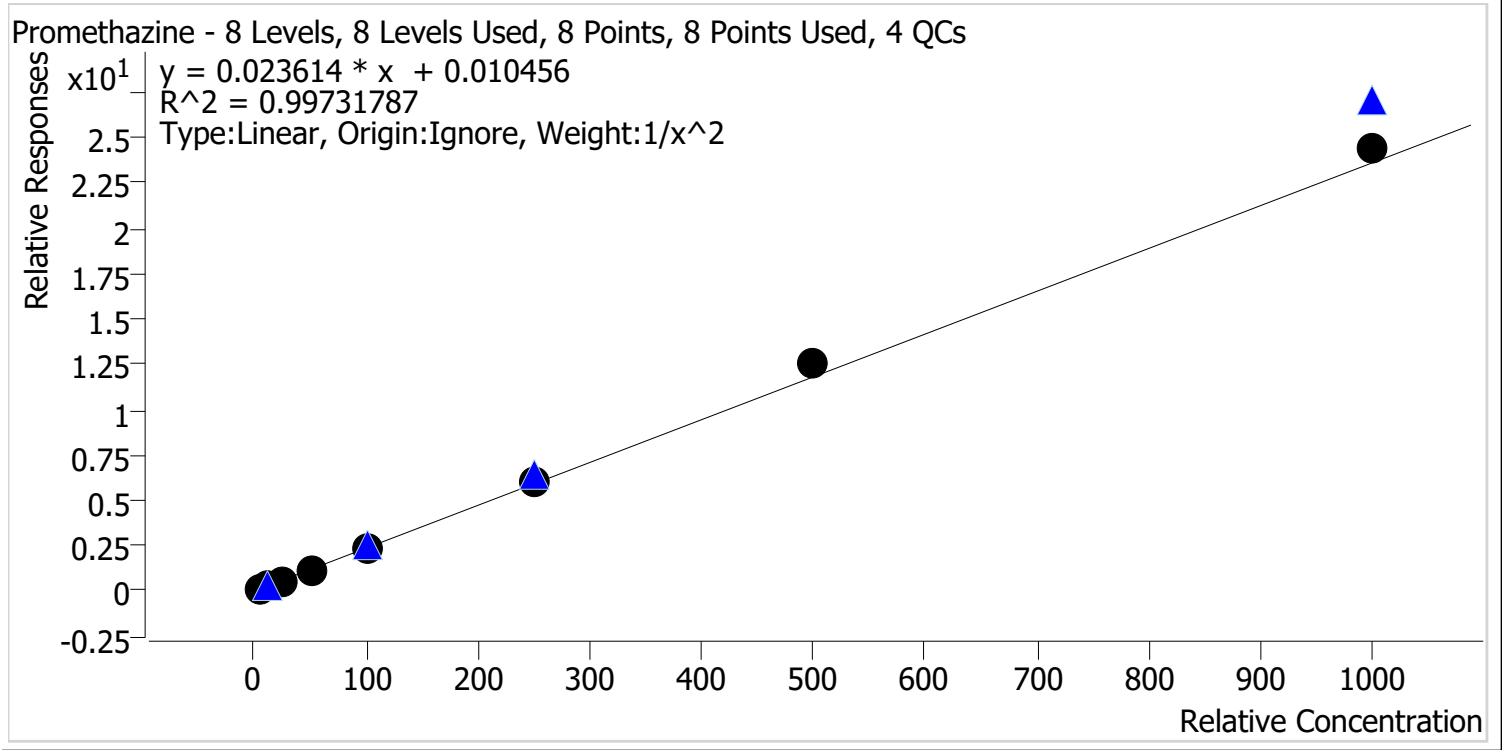
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.8	95.8
p1 Cal 2-10ng	2	✓	10.0	10.4	104.0
p1 Cal 3 -25ng	3	✓	25.0	26.5	106.0
p1 Cal 4-50ng	4	✓	50.0	53.9	107.8
p1 Cal 5-100ng	5	✓	100.0	106.2	106.2
p1 Cal 6-250ng	6	✓	250.0	253.2	101.3
p1 Cal 7-500ng	7	✓	500.0	484.1	96.8
p1 Cal 8-1000ng	8	✓	1000.0	821.0	82.1

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Promethazine **Internal Standard** Promethazine-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.3
p1 Cal 2-10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	23.3	93.1
p1 Cal 4-50ng	4	✓	50.0	48.0	96.0
p1 Cal 5-100ng	5	✓	100.0	97.6	97.6
p1 Cal 6-250ng	6	✓	250.0	253.4	101.4
p1 Cal 7-500ng	7	✓	500.0	534.6	106.9
p1 Cal 8-1000ng	8	✓	1000.0	1038.6	103.9

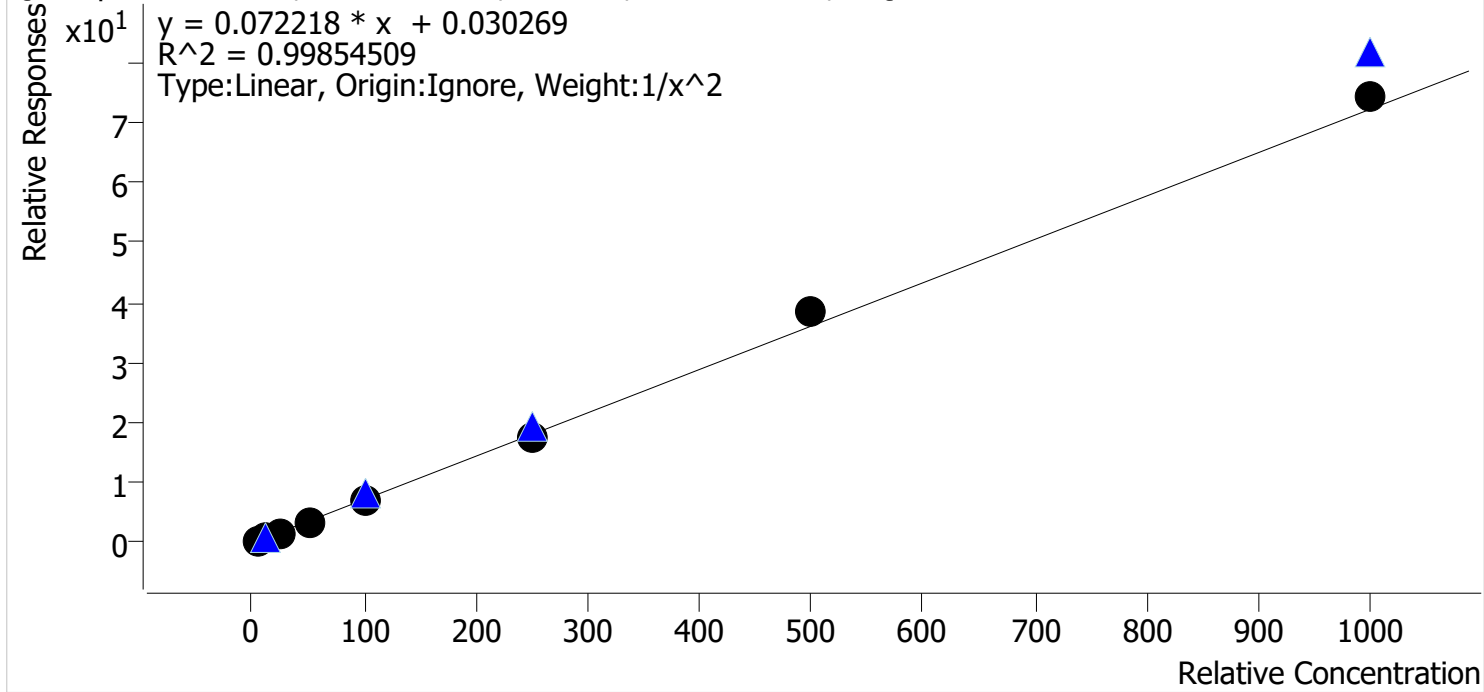
Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Quetiapine **Internal Standard** Quetiapine-D8

Quetiapine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



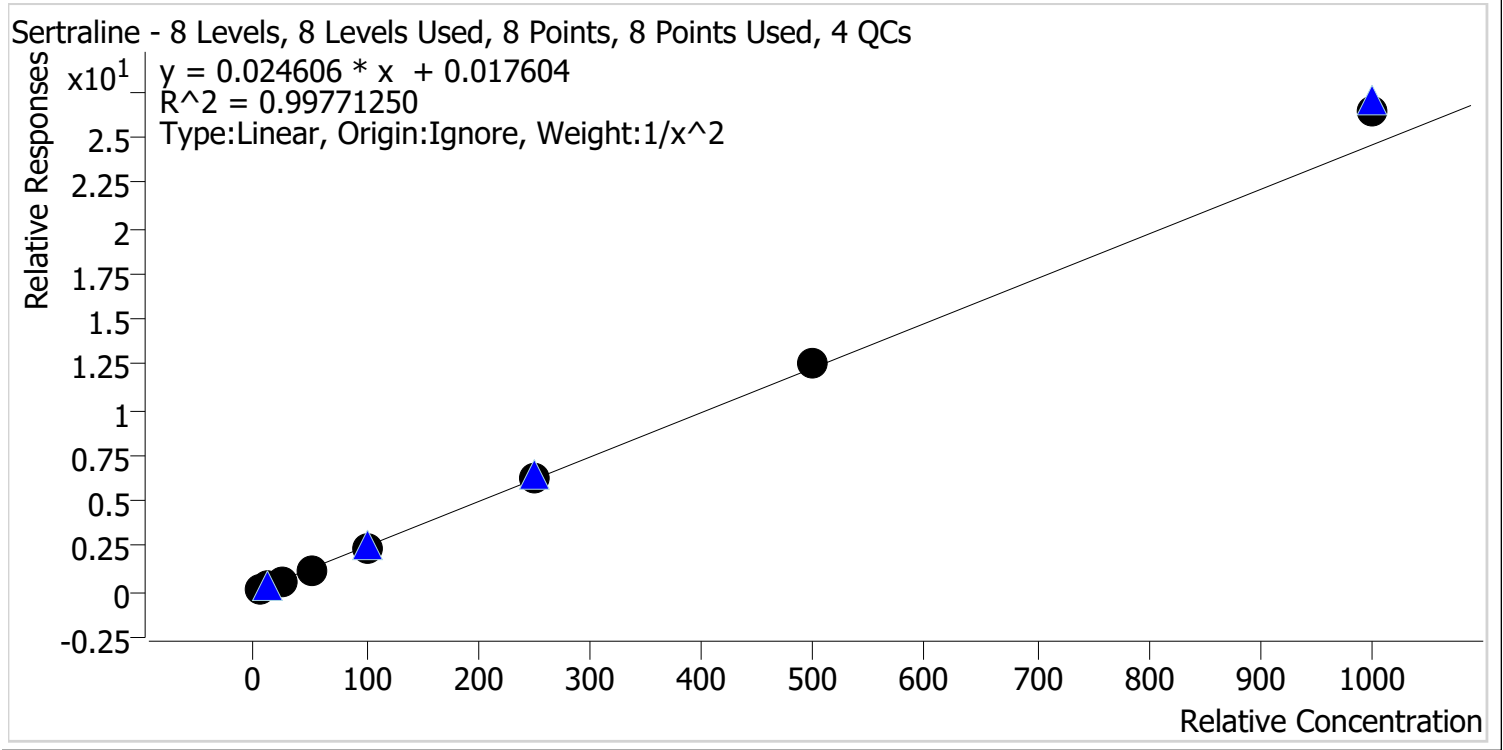
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	101.8
p1 Cal 2-10ng	2	✓	10.0	9.8	98.0
p1 Cal 3 -25ng	3	✓	25.0	24.5	98.1
p1 Cal 4-50ng	4	✓	50.0	48.6	97.3
p1 Cal 5-100ng	5	✓	100.0	96.9	96.9
p1 Cal 6-250ng	6	✓	250.0	247.3	98.9
p1 Cal 7-500ng	7	✓	500.0	531.7	106.3
p1 Cal 8-1000ng	8	✓	1000.0	1027.4	102.7

Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Sertraline **Internal Standard** Sertraline-D3



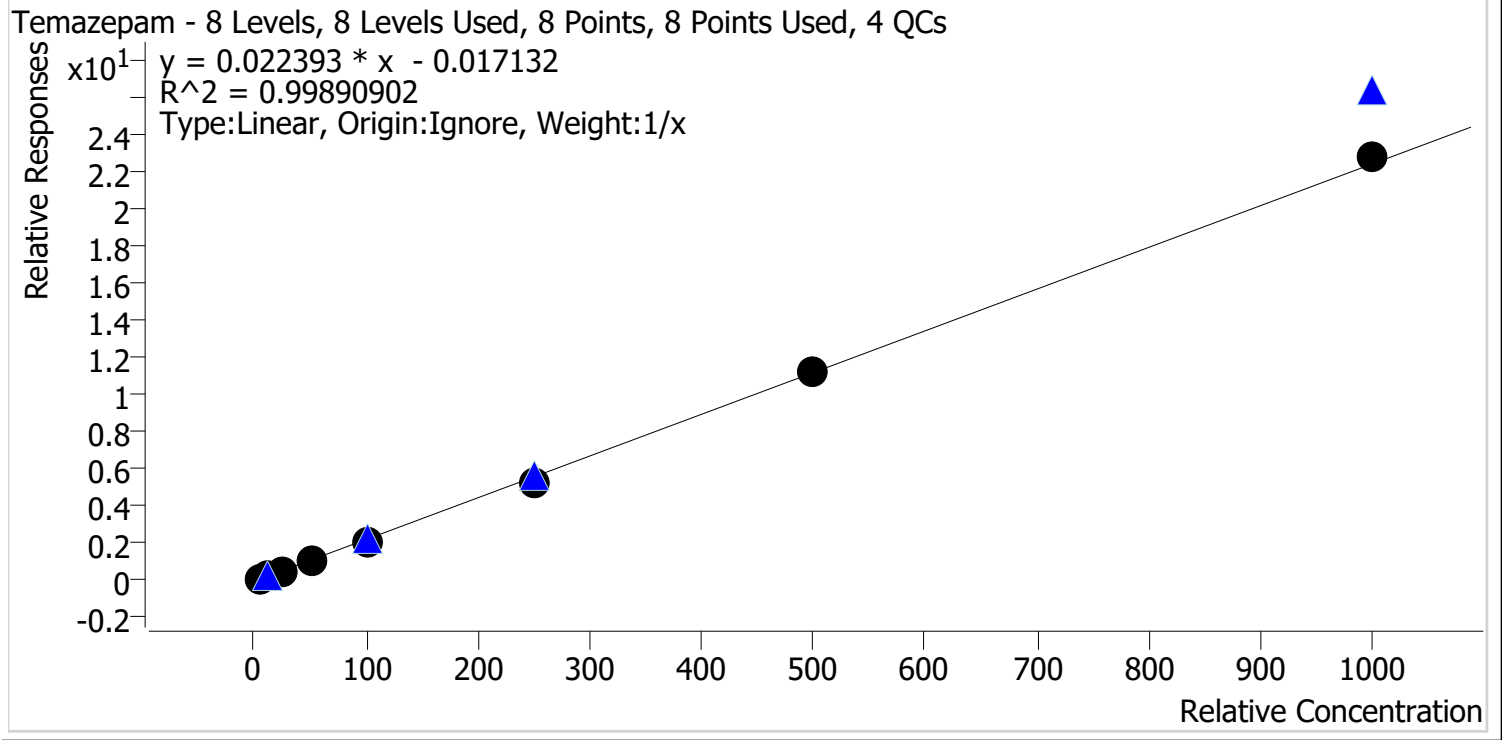
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.4
p1 Cal 2-10ng	2	✓	10.0	9.8	97.8
p1 Cal 3 -25ng	3	✓	25.0	24.0	96.2
p1 Cal 4-50ng	4	✓	50.0	48.0	96.0
p1 Cal 5-100ng	5	✓	100.0	96.7	96.7
p1 Cal 6-250ng	6	✓	250.0	251.1	100.5
p1 Cal 7-500ng	7	✓	500.0	513.1	102.6
p1 Cal 8-1000ng	8	✓	1000.0	1078.8	107.9

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Temazepam **Internal Standard** Temazepam-D5



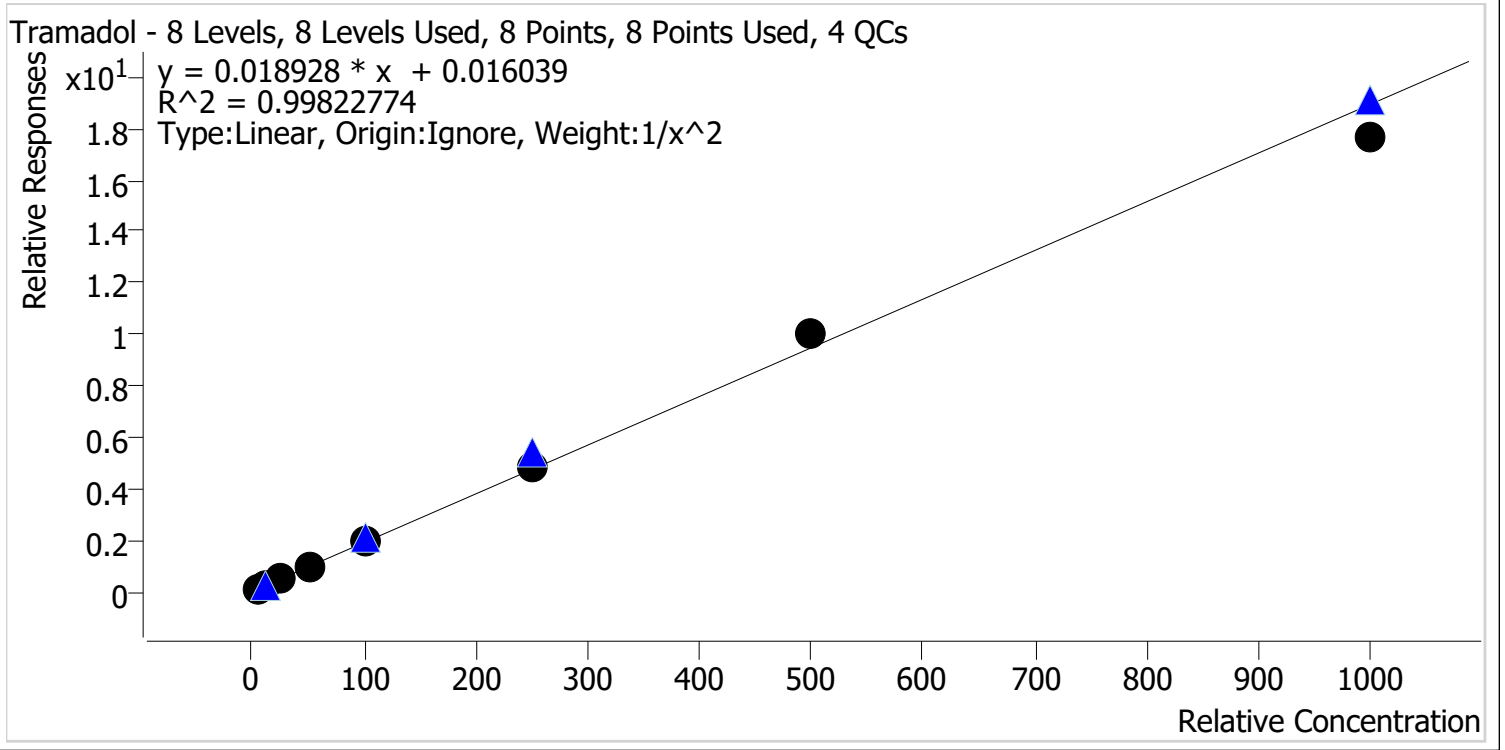
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.9	118.2
p1 Cal 2-10ng	2	✓	10.0	10.3	103.5
p1 Cal 3 -25ng	3	✓	25.0	23.2	92.8
p1 Cal 4-50ng	4	✓	50.0	47.6	95.2
p1 Cal 5-100ng	5	✓	100.0	92.3	92.3
p1 Cal 6-250ng	6	✓	250.0	238.1	95.2
p1 Cal 7-500ng	7	✓	500.0	505.7	101.1
p1 Cal 8-1000ng	8	✓	1000.0	1016.9	101.7

Handwritten initials/signature.



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Tramadol **Internal Standard** Tramadol-13C-D3



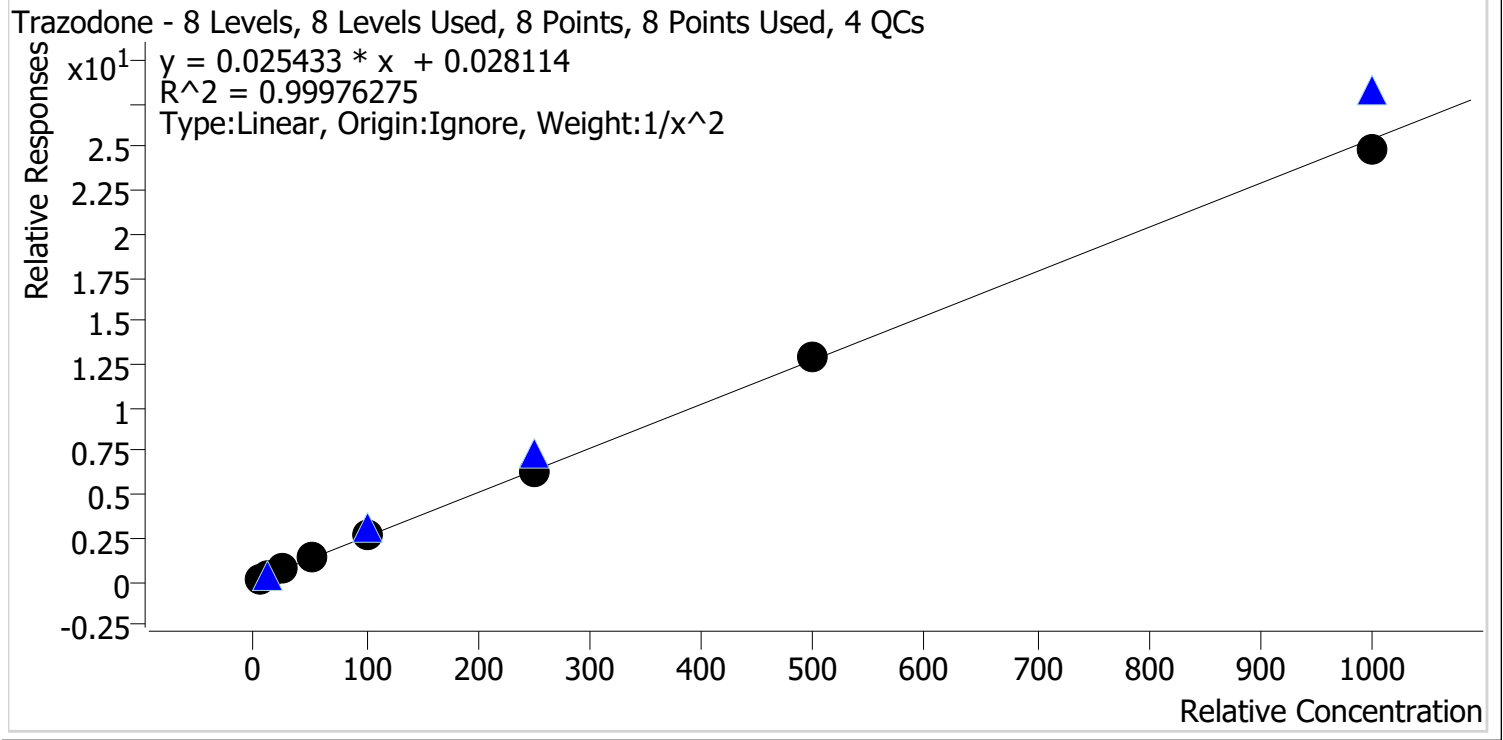
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.6
p1 Cal 2-10ng	2	✓	10.0	9.9	99.3
p1 Cal 3 -25ng	3	✓	25.0	24.6	98.3
p1 Cal 4-50ng	4	✓	50.0	49.7	99.4
p1 Cal 5-100ng	5	✓	100.0	100.5	100.5
p1 Cal 6-250ng	6	✓	250.0	258.8	103.5
p1 Cal 7-500ng	7	✓	500.0	526.6	105.3
p1 Cal 8-1000ng	8	✓	1000.0	930.2	93.0

AS



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Trazodone **Internal Standard** Trazodone-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.0	100.5
p1 Cal 2-10ng	2	✓	10.0	9.9	98.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.4
p1 Cal 4-50ng	4	✓	50.0	50.7	101.3
p1 Cal 5-100ng	5	✓	100.0	101.6	101.6
p1 Cal 6-250ng	6	✓	250.0	247.2	98.9
p1 Cal 7-500ng	7	✓	500.0	506.5	101.3
p1 Cal 8-1000ng	8	✓	1000.0	980.9	98.1



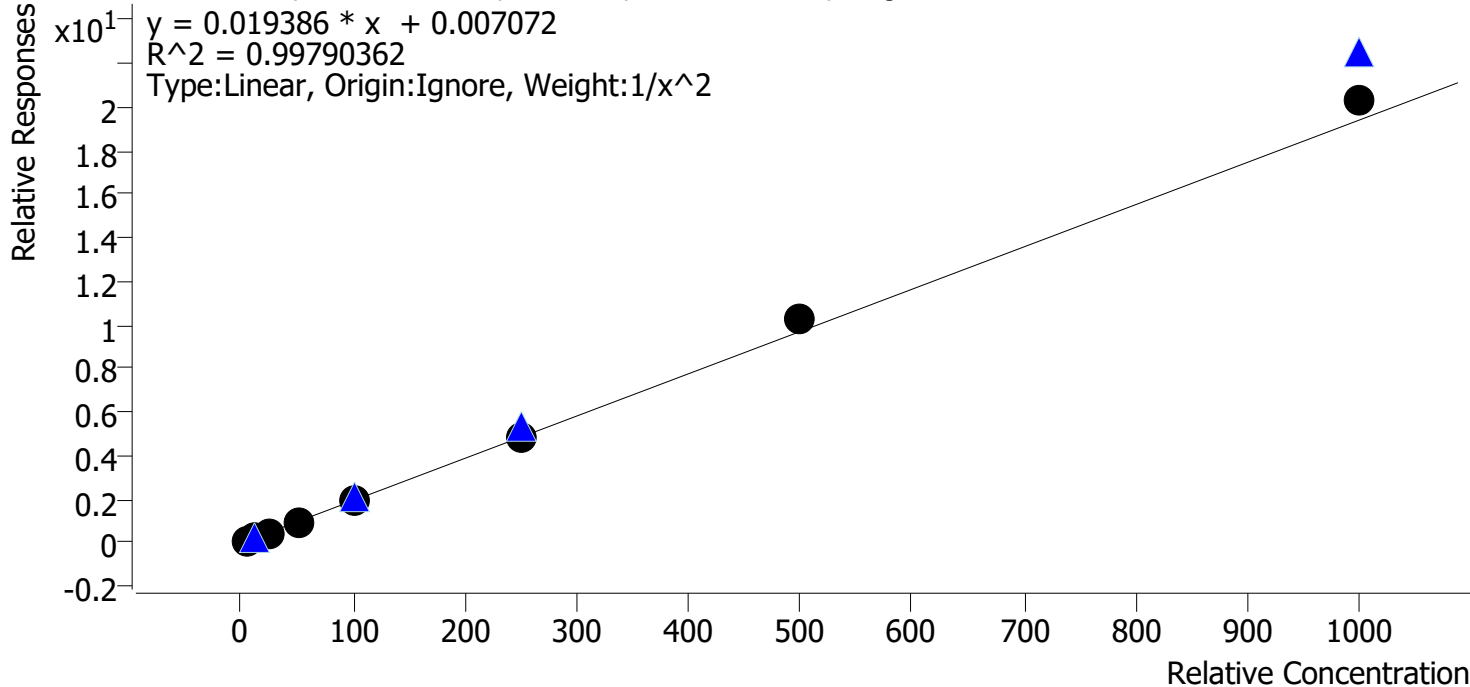
Handwritten initials/signature



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Venlafaxine **Internal Standard** Venlafaxine-D6

Venlafaxine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 4 QCs



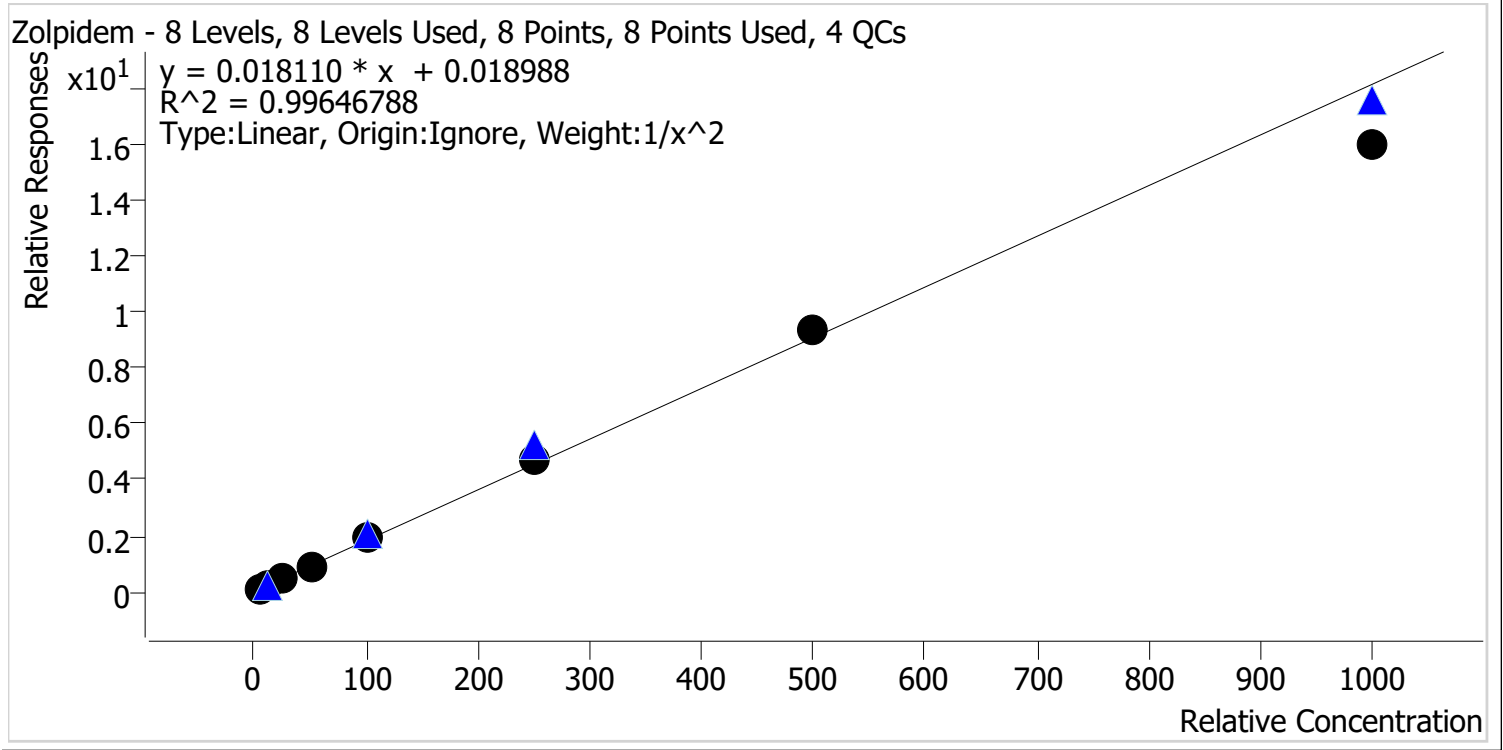
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	5.1	102.2
p1 Cal 2-10ng	2	✓	10.0	9.9	98.6
p1 Cal 3 -25ng	3	✓	25.0	23.8	95.2
p1 Cal 4-50ng	4	✓	50.0	47.5	94.9
p1 Cal 5-100ng	5	✓	100.0	98.3	98.3
p1 Cal 6-250ng	6	✓	250.0	251.4	100.6
p1 Cal 7-500ng	7	✓	500.0	529.1	105.8
p1 Cal 8-1000ng	8	✓	1000.0	1043.5	104.3

28



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

**Batch results** C:\Users\lagerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Last Cal. Update** 8/5/2021 10:00 AM  
**Analyst Name** ISP\lagerheart  
**Analyte** Zolpidem **Internal Standard** Zolpidem-D6



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
p1 Cal 1-5ng	1	✓	5.0	4.9	98.2
p1 Cal 2-10ng	2	✓	10.0	10.3	102.9
p1 Cal 3 -25ng	3	✓	25.0	24.9	99.8
p1 Cal 4-50ng	4	✓	50.0	50.8	101.5
p1 Cal 5-100ng	5	✓	100.0	103.6	103.6
p1 Cal 6-250ng	6	✓	250.0	256.0	102.4
p1 Cal 7-500ng	7	✓	500.0	517.7	103.5
p1 Cal 8-1000ng	8	✓	1000.0	880.8	88.1

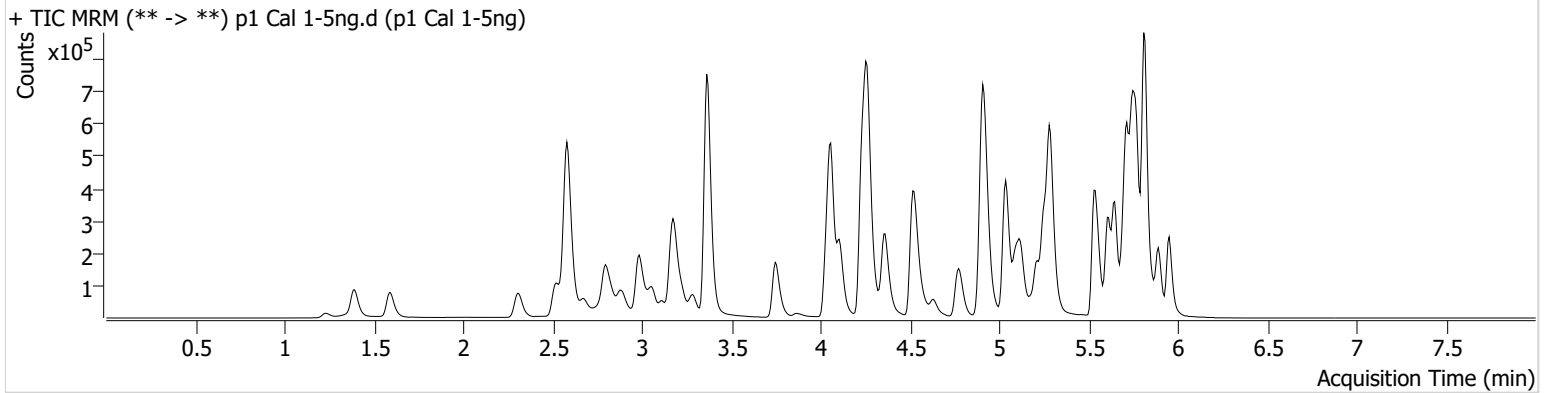


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 1-5ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 1-5ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-A1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:06:20 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	1863	2332.77	79.9	2053.57	97100	0.5199 ng/ml
7-aminoclonazepam	4.271	36037	168.54	78.3	449.76	381306	5.0413 ng/ml
a-hydroxyalprazolam	5.692	28809	194.21	57.5	254.88	523673	4.7537 ng/ml
alpha-PHP	4.937	18065	457.92	265.7	2336.85	605416	4.6940 ng/ml
alpha-PVP	4.370	78448	685.11	52.5	883.92	605416	5.0800 ng/ml
Alprazolam	5.775	85612	361.54	109.3	599.09	523673	5.0603 ng/ml
Amphetamine	3.063	113623	179.27	50.9	336.52	241322	4.8236 ng/ml
Benzoylcegonine	3.892	3608	106.04	8.2	24.87	23479	5.1794 ng/ml
Buprenorphine	5.887	1657	3677.94	19.6 <b>High</b>	577.39	109863	0.5327 ng/ml
Bupropion	4.788	61073	2435.55	60.8	226.63	379188	5.0406 ng/ml
Carisoprodol	5.724	84974	546424.34	58.8	117.79	777952	6.4381 ng/ml
Citalopram	5.212	44262	276.69	38.9	783.08	350886	5.0768 ng/ml
Clonazepam	5.612	93806	373.62	31.2	60665.03	215341	4.8951 ng/ml
Clonazepam	5.548	66907	173062.88	36.0	48432.13	215341	4.9070 ng/ml
Cocaine	4.264	68048	1212.38	52.5	89338.43	1073966	5.1285 ng/ml
Codeine	2.573	10139	1253.05	97.1	4776.54	88396	4.7900 ng/ml
Cyclobenzaprine	5.615	39828	75441.34	8.5	46.22	294858	5.0906 ng/ml
Dextromethorphan	5.262	23116	1400.69	79.8	34443.90	206183	5.0731 ng/ml
Dextrophan	4.111	20419	224.69	206.3	706.79	424549	5.0874 ng/ml
Diazepam	5.960	52563	402.07	86.9	248.52	435231	4.9635 ng/ml
Dihydrocodeine	2.545	24868	799.30	71.2	173.83	266359	4.8221 ng/ml
Diphenhydramine	5.289	108034	296.20	33.8	321.26	1177899	5.1543 ng/ml
Doxylamine	4.536	142663	1787.61	95.7	2888.68	1124982	5.0515 ng/ml
EDDP	5.254	52452	56624.98	41.1	1002.00	500855	5.0539 ng/ml
Etizolam	5.813	57794	93456.69	26.3	31249.84	215341	5.2163 ng/ml
Fentanyl	5.109	4728	39.24	65.7	7291.68	450642	0.5082 ng/ml
Flualprazolam	5.705	39620	1900.41	102.3	7428.08	523673	4.8938 ng/ml
Fluoxetine	5.700	48048	59189.56	9.2	1889.70	351273	4.9588 ng/ml
Hydrocodone	3.012	34338	54.87	40.6	39.63	371650	4.9119 ng/ml
Hydromorphone	1.601	32705	771.77	78.9	955.86	201982	5.0236 ng/ml
Ketamine	4.051	72955	159.49	34.1	121.46	631792	4.9372 ng/ml
Lamotrigine	4.280	7935	126.80	78.7	4853.83	631792	4.9188 ng/ml
Levetiracetam	2.676	38287	511.79	164.2	524.38	1496894	5.7329 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	89975	1101.48	61.7	351.93	215341	4.7448 ng/ml
MDA	3.196	93328	726.43	24.3	46.23	439226	4.8350 ng/ml
MDMA	3.290	52731	1037.49	81.6	524.18	86756	5.0830 ng/ml
Meprobamate	4.917	48698	235.66	28.6	898.42	364025	4.7931 ng/ml
Methadone	5.646	74625	2815.89	51.9	98.19	584635	5.1256 ng/ml
Methamphetamine	3.231	69638	442.16	36.8	165.41	471572	4.8113 ng/ml
Metoprolol	4.326	14343	8986.76	97.5	545.74	1355918	4.9228 ng/ml
Mirtazapine	4.631	72373	755.44	53.6	635.65	605416	4.9431 ng/ml
Mitragynine	5.237	19472	717.29	40.9	4454.36	584635	5.0607 ng/ml
Morphine	1.240	4488	168.33	41.9	18.33	7598	4.9807 ng/ml
Norbuprenorphine	4.986	193	13.03	83.7	89.36	12832	0.4870 ng/ml
Nordiazepam	5.900	57293	127942.61	53.5	397.58	328955	4.9479 ng/ml
Norfentanyl	4.079	12851	485.79	35.2	9.71 <b>Low</b>	1059291	0.5290 ng/ml
Norhydrocodone	3.059	5688	32.39	43.1	35.98	78621	6.2509 ng/ml
Noroxycodone	2.903	37036	472.87	42.0	388.44	226418	5.0144 ng/ml
O-desmethyl-tramadol	3.369	171922	481.73	6.8	480.45	1881536	5.0715 ng/ml
Oxazepam	5.756	104694	288.50	76.7	345.43	835612	4.9176 ng/ml
Oxycodone	2.827	71985	462.61	28.3	356.19	581338	4.9783 ng/ml
Oxymorphone	1.391	39565	215.55	43.8	141.24	247961	4.9128 ng/ml
Phentermine	3.783	24246	195.15	4.2	14.10	483396	4.7900 ng/ml
Promethazine	5.532	91012	105405.45	27.9	412.10	693157	5.1175 ng/ml
Pseudoephedrine	2.589	165583	851.73	15.9	2352.18	1496894	5.1282 ng/ml
Quetiapine	5.562	60496	3497.42	59.0	93367.71	152102	5.0883 ng/ml
Sertraline	5.776	22767	98.64	91.2	589.78	158609	5.1183 ng/ml
Temazepam	5.816	183644	364.57	28.2	51.85	1594527	5.9084 ng/ml
Tramadol	4.246	150871	7000.18	3.7	63.95	1355918	5.0313 ng/ml
Trazodone	5.176	67138	3329.01	81.7	140878.47	430772	5.0226 ng/ml
Venlafaxine	5.037	109314	313.60	35.2	150.71	1030298	5.1081 ng/ml
Zolpidem	4.935	179768	241.81	30.6	793.03	1665296	4.9123 ng/ml

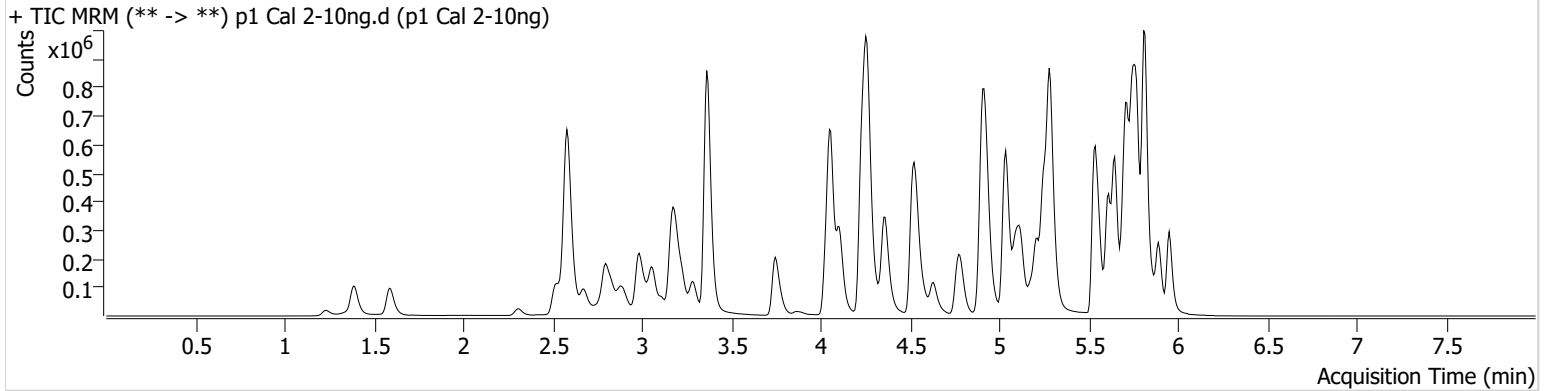


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 2-10ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 2-10ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-B1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:17:07 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	3445	102.01	75.8	1126.98	101832	0.9373 ng/ml
7-aminoclonazepam	4.271	69368	153.30	75.9	2400.56	392098	9.9148 ng/ml
a-hydroxyalprazolam	5.692	54589	885.11	56.0	381.16	539410	10.5104 ng/ml
alpha-PHP	4.937	43113	3128.82	261.1	356.33	707182	10.8115 ng/ml
alpha-PVP	4.370	173286	6399.17	53.6	665.43	707182	9.9728 ng/ml
Alprazolam	5.775	163033	510.88	110.3	562.56	539410	9.9473 ng/ml
Amphetamine	3.063	257530	686.28	51.6	941.71	281695	10.4907 ng/ml
Benzoylecgonine	3.892	6304	30.08	8.1	118.45	23545	9.5978 ng/ml
Buprenorphine	5.887	3607	105.28	13.2	23.78	139615	0.9822 ng/ml
Bupropion	4.788	143738	256.65	63.5	600.44	472987	9.9681 ng/ml
Carisoprodol	5.724	152312	335.87	61.6	178.09	757331	10.6521 ng/ml
Citalopram	5.212	108333	347.16	39.6	343.71	460461	9.8740 ng/ml
Clonazepam	5.612	171006	2111.33	32.4	227.48	212157	10.2019 ng/ml
Clonazepam	5.548	125681	263601.89	38.1	109144.79	212157	10.2959 ng/ml
Cocaine	4.264	141856	7142.27	54.0	150021.91	1235569	9.7397 ng/ml
Codeine	2.566	20132	65348.25	97.3	41554.65	90798	10.4316 ng/ml
Cyclobenzaprine	5.615	97738	2103.30	8.9	86.78	390843	9.7878 ng/ml
Dextromethorphan	5.255	60766	1747.43	80.6	91.45	293913	9.8761 ng/ml
Dextrophan	4.111	45881	296.98	202.7	4558.85	515827	9.7985 ng/ml
Diazepam	5.960	98072	328.65	87.4	1154.34	436091	10.1132 ng/ml
Dihydrocodeine	2.552	49952	462.31	69.1	∞	276992	10.4459 ng/ml
Diphenhydramine	5.289	256819	779.26	34.6	406.44	1553449	9.6647 ng/ml
Doxylamine	4.536	320113	4200.67	96.3	3391.98	1362450	9.8927 ng/ml
EDDP	5.254	128099	2075.60	42.3	172.91	644749	9.9835 ng/ml
Etizolam	5.813	110204	261373.46	25.4	30621.78	212157	9.8482 ng/ml
Fentanyl	5.109	11489	70.30	59.2	3952.05	595486	0.9831 ng/ml
Flualprazolam	5.705	77749	1838.47	97.5	5032.93	539410	10.3035 ng/ml
Fluoxetine	5.700	125237	372.83	8.0	82.81	483207	10.1064 ng/ml
Hydrocodone	3.012	68989	135.16	42.1	144.70	397471	10.1354 ng/ml
Hydromorphone	1.595	62984	2009.94	80.7	410.81	210068	9.9556 ng/ml
Ketamine	4.051	146655	349.83	34.7	134.64	661223	10.2869 ng/ml
Lamotrigine	4.280	14763	427.84	83.5	782.48	661223	10.1086 ng/ml
Levetiracetam	2.676	73480	476.64	164.8	1300.67	1621299	10.1481 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	170434	4750.36	59.6	1075.63	212157	10.8468 ng/ml
MDA	3.196	204889	1376.88	24.2	208.77	507371	10.2909 ng/ml
MDMA	3.290	115445	2528.55	81.6	782.12	103737	9.7541 ng/ml
Meprobamate	4.917	90284	8859.79	27.7	2180.97	361938	10.4916 ng/ml
Methadone	5.646	193582	245368.93	51.4	381.95	809122	9.8171 ng/ml
Methamphetamine	3.231	159007	303.04	36.6	239.66	566777	10.4967 ng/ml
Metoprolol	4.326	31622	1023.98	97.2	592.82	1556527	10.2406 ng/ml
Mirtazapine	4.631	172448	1899.05	54.4	100223.76	707182	10.2273 ng/ml
Mitragynine	5.237	45668	1767.86	38.2	50452.48	809122	9.7396 ng/ml
Morphine	1.240	8714	344.17	42.9	111.05	7968	9.9355 ng/ml
Norbuprenorphine	4.986	523	1518.28	92.1	956.28	18883	1.0943 ng/ml
Nordiazepam	5.900	108246	947.08	53.3	779.49	324796	10.2416 ng/ml
Norfentanyl	4.079	27257	1857.53	39.3	248.65	1250687	0.9356 ng/ml
Norhydrocodone	3.059	10877	32.62	46.7	78.03	84772	10.1640 ng/ml
Noroxycodone	2.903	73910	862.93	42.9	986.61	244508	10.0408 ng/ml
O-desmethyl-tramadol	3.369	341538	1230.31	6.9	966.48	1993444	9.9006 ng/ml
Oxazepam	5.749	200825	2960.87	71.6	185.35	842582	10.2588 ng/ml
Oxycodone	2.827	142144	981.94	28.1	382.55	612420	9.9954 ng/ml
Oxymorphone	1.391	78306	207.53	43.5	341.66	250617	10.3922 ng/ml
Phentermine	3.783	55200	178.26	3.9	19.78	575129	10.4018 ng/ml
Promethazine	5.538	227545	477.62	28.1	425.61	932591	9.8897 ng/ml
Pseudoephedrine	2.589	343545	393.55	16.2	703.19	1621299	9.8875 ng/ml
Quetiapine	5.562	132079	260.28	60.7	126851.59	179003	9.7980 ng/ml
Sertraline	5.776	56205	229.36	98.8	47771.95	217688	9.7775 ng/ml
Temazepam	5.816	342056	∞	28.3	1001.07	1594244	10.3467 ng/ml
Tramadol	4.246	317567	630.00	3.8	56.77	1556527	9.9318 ng/ml
Trazodone	5.176	149664	15334.45	82.7	141767.08	534981	9.8942 ng/ml
Venlafaxine	5.037	251756	3652.95	35.3	510.18	1270370	9.8576 ng/ml
Zolpidem	4.935	355238	2161.83	30.3	2144.26	1729984	10.2902 ng/ml

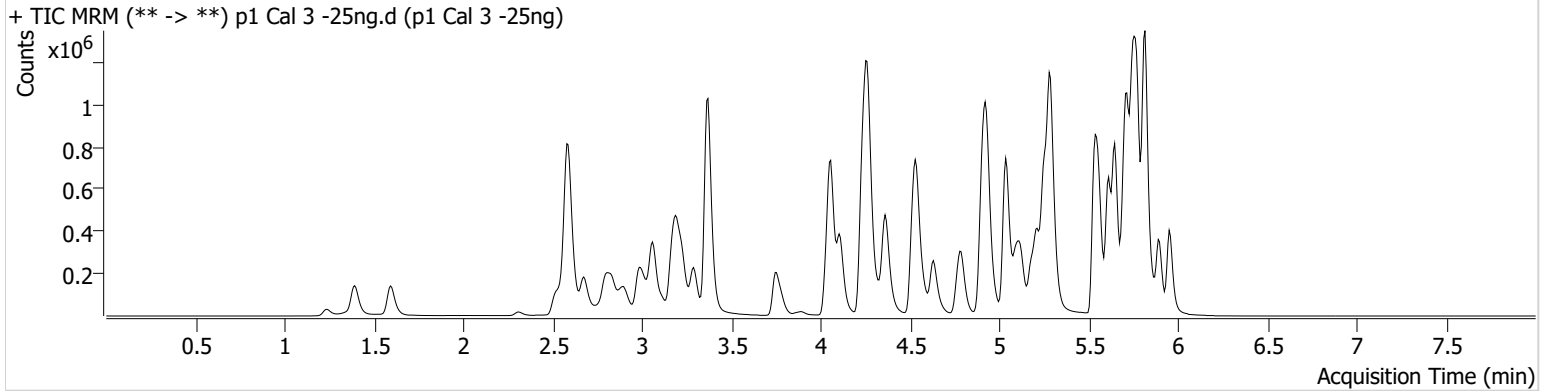


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 3 -25ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 3 -25ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-C1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:27:43 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.131	8795	373.32	72.6	5631.07	101571	2.4414 ng/ml
7-aminoclonazepam	4.271	158383	96.03	74.8	48491.77	375473	24.3988 ng/ml
a-hydroxyalprazolam	5.692	123845	712.17	57.8	328.38	521551	27.4919 ng/ml
alpha-PHP	4.937	102076	792.75	263.6	3762.84	712575	26.9843 ng/ml
alpha-PVP	4.370	406427	∞	53.0	5680.45	712575	23.7587 ng/ml
Alprazolam	5.775	367222	866.86	111.6	1754.90	521551	24.1002 ng/ml
Amphetamine	3.063	601088	524.49	51.9	878.16	286892	25.5852 ng/ml
Benzoylcegonine	3.892	14218	67.92	8.7	147.00	22191	24.0420 ng/ml
Buprenorphine	5.887	9264	202.21	14.5	3650.90	147337	2.5309 ng/ml
Bupropion	4.788	336409	15656.12	62.7	1031.15	467486	24.3100 ng/ml
Carisoprodol	5.724	348423	369.83	61.4	1385.80	749710	22.7418 ng/ml
Citalopram	5.212	270193	765.37	38.5	390835.24	478999	24.3283 ng/ml
Clonazepam	5.612	395550	6396.47	32.4	223.11	212289	25.3481 ng/ml
Clonazepam	5.549	287985	442135.48	38.5	146674.02	212289	24.9145 ng/ml
Cocaine	4.264	327597	771.41	53.5	37443.51	1207090	23.7739 ng/ml
Codeine	2.573	47195	214.89	97.0	70512.64	88264	26.9294 ng/ml
Cyclobenzaprine	5.615	254897	620040.41	8.9	26615.60	418446	24.4557 ng/ml
Dextromethorphan	5.262	151746	9796.82	81.1	185.24	312859	24.0006 ng/ml
Dextrophan	4.111	109118	1428.73	204.5	14682.40	506282	24.3961 ng/ml
Diazepam	5.960	231881	12655.25	87.6	324.59	438108	25.1685 ng/ml
Dihydrocodeine	2.552	116348	990.18	68.5	781.19	276352	26.0076 ng/ml
Diphenhydramine	5.289	643848	33566.16	34.6	6825.95	1614365	23.9735 ng/ml
Doxylamine	4.536	736517	926.22	94.7	863.45	1312788	24.4907 ng/ml
EDDP	5.254	320234	1657.20	41.5	298.20	682518	24.1766 ng/ml
Etizolam	5.813	251286	662480.37	26.0	93552.77	212289	22.1034 ng/ml
Fentanyl	5.109	28715	1034.08	62.5	30360.98	629916	2.4018 ng/ml
Flualprazolam	5.705	174065	2489.09	100.7	27270.68	521551	25.2823 ng/ml
Fluoxetine	5.700	308824	13249.67	8.4	199.78	493762	25.5103 ng/ml
Hydrocodone	3.012	164132	111.14	41.8	134.34	394831	25.7163 ng/ml
Hydromorphone	1.601	147187	540380.85	70.3	1272.43	205850	24.8043 ng/ml
Ketamine	4.051	345973	36427.13	35.2	420.06	680009	24.7272 ng/ml
Lamotrigine	4.280	34944	220.09	80.6	949.10	680009	25.5485 ng/ml
Levetiracetam	2.676	166593	2457.91	163.2	1139.58	1597648	23.3310 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	379856	14000.85	58.2	522.68	212289	26.4533 ng/ml
MDA	3.196	481385	3766.36	24.2	279.85	501024	26.1725 ng/ml
MDMA	3.290	280460	3416.37	79.7	2288.54	102892	24.6712 ng/ml
Meprobamate	4.917	202451	393.21	29.5	308.92	350757	26.6375 ng/ml
Methadone	5.646	483558	∞	53.7	5305.39	855816	23.5116 ng/ml
Methamphetamine	3.231	360488	1509.01	37.9	377.12	563206	25.8795 ng/ml
Metoprolol	4.326	73479	203842.42	94.7	1832.10	1554245	24.9637 ng/ml
Mirtazapine	4.631	427693	13747.08	52.8	41017.79	712575	25.3755 ng/ml
Mitragynine	5.237	112898	150010.96	39.2	40789.62	855816	25.0049 ng/ml
Morphine	1.240	20150	434.93	42.0	277.73	7513	25.5810 ng/ml
Norbuprenorphine	4.992	1017	66.04	99.3	829.72	19858	2.2276 ng/ml
Nordiazepam	5.900	254115	4755.95	54.2	773.71	329116	24.8424 ng/ml
Norfentanyl	4.079	64101	369.04	36.0	194.11	1198126	2.2700 ng/ml
Norhydrocodone	3.060	26476	85.34	42.9	100.72	82569	23.6161 ng/ml
Noroxycodone	2.903	169282	148.29	43.5	564.61	243092	24.3216 ng/ml
O-desmethyl-tramadol	3.369	815085	18365.43	6.8	483.01	1994395	24.2358 ng/ml
Oxazepam	5.756	452213	15232.36	70.2	320.60	826659	24.8430 ng/ml
Oxycodone	2.827	336898	293.32	27.8	1062.43	598755	25.3127 ng/ml
Oxymorphone	1.391	173794	323.09	45.0	146.68	242927	24.8337 ng/ml
Phentermine	3.783	131053	1600.22	3.9	125.33	576388	26.4940 ng/ml
Promethazine	5.538	565378	40830.48	28.2	131.32	1009982	23.2629 ng/ml
Pseudoephedrine	2.596	796149	9066.33	16.3	32585.82	1597648	23.3475 ng/ml
Quetiapine	5.562	336005	12855.28	59.3	3950.61	186563	24.5196 ng/ml
Sertraline	5.776	144978	930.01	93.3	3373.72	238006	24.0401 ng/ml
Temazepam	5.816	797134	7906.57	28.7	7152.14	1586597	23.2019 ng/ml
Tramadol	4.246	747914	50791.47	3.5	128.99	1554245	24.5763 ng/ml
Trazodone	5.176	372845	2250.19	81.7	6296.65	564650	24.8572 ng/ml
Venlafaxine	5.037	591776	2249.05	35.7	318.22	1262755	23.8087 ng/ml
Zolpidem	4.935	809600	2480.51	31.0	1926.22	1720333	24.9376 ng/ml



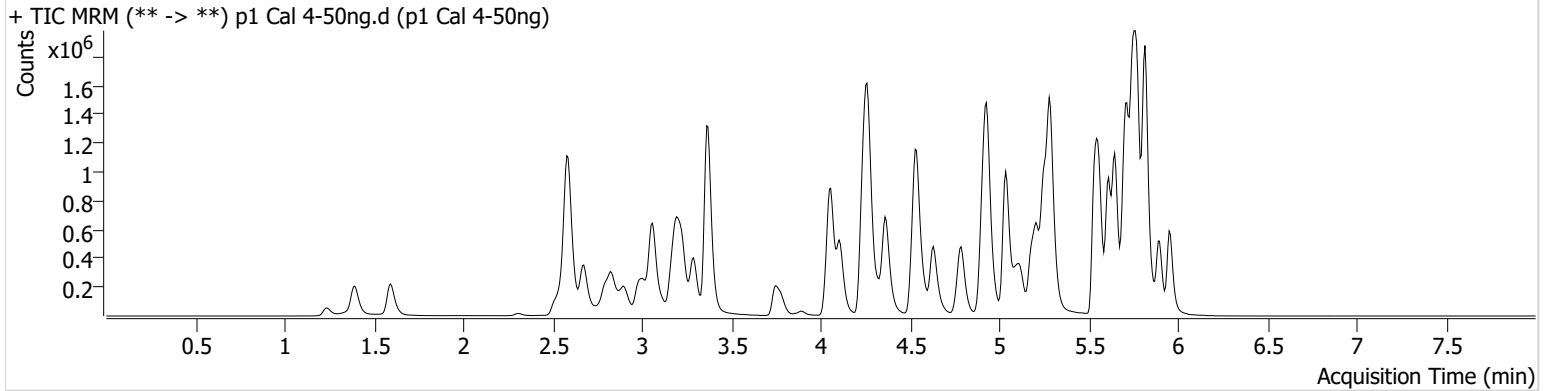


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 4-50ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 4-50ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-D1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:38:19 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	16740	1938.81	74.5	35150.52	100297	4.7312 ng/ml
7-aminoclonazepam	4.271	324114	8582.09	74.9	156.98	377596	50.2162 ng/ml
a-hydroxyalprazolam	5.692	232181	2638.18	56.1	911.18	516068	53.9701 ng/ml
alpha-PHP	4.937	189754	1649.06	267.5	9674.91	687352	53.0891 ng/ml
alpha-PVP	4.370	787136	780.32	53.2	929.58	687352	48.1168 ng/ml
Alprazolam	5.775	726885	1436.72	109.0	31973.97	516068	48.9090 ng/ml
Amphetamine	3.063	1190660	4544.36	52.3	719.81	280016	53.1545 ng/ml
Benzoylcegonine	3.892	28684	179.27	9.0	5375.38	23835	45.8365 ng/ml
Buprenorphine	5.887	17982	378.51	14.1	5052.61	138631	5.3247 ng/ml
Bupropion	4.788	661188	49821.59	61.7	342.03	454309	49.6928 ng/ml
Carisoprodol	5.724	647384	1861454.06	60.8	485.69	709993	43.2442 ng/ml
Citalopram	5.212	518745	1764.34	39.3	13386.42	465799	48.4880 ng/ml
Clonazepam	5.612	770480	21665.87	31.6	3507.33	204279	52.6890 ng/ml
Clonazepam	5.549	555018	111179.62	38.6	621672.47	204279	50.9388 ng/ml
Cocaine	4.264	642906	29044.62	54.3	6507.60	1173171	48.5660 ng/ml
Codeine	2.566	89619	4407.19	98.6	127768.72	87392	52.7992 ng/ml
Cyclobenzaprine	5.615	463686	248.74	9.0	143.66	380971	49.2899 ng/ml
Dextromethorphan	5.262	285220	546.28	80.8	4983.24	287025	49.8190 ng/ml
Dextrophan	4.112	213013	930.38	204.6	1112.23	494345	49.2334 ng/ml
Diazepam	5.960	453355	4378.65	87.4	523.73	441285	49.8035 ng/ml
Dihydrocodeine	2.545	226389	1462.06	69.4	6060.01	271647	52.6714 ng/ml
Diphenhydramine	5.289	1231635	19592.01	34.0	510.45	1564386	47.7787 ng/ml
Doxylamine	4.536	1450398	4471.75	96.4	2673.53	1300617	49.2980 ng/ml
EDDP	5.254	617440	22202.38	41.5	62237.05	655157	49.0059 ng/ml
Etizolam	5.813	495846	59122.95	24.5	5192.34	204279	45.0471 ng/ml
Fentanyl	5.109	54571	3282.34	61.1	58254.99	583268	4.9905 ng/ml
Flualprazolam	5.705	340492	7885.61	98.8	8089.86	516068	51.0385 ng/ml
Fluoxetine	5.700	561729	464.94	8.7	82591.15	470144	49.4548 ng/ml
Hydrocodone	3.012	320532	∞	41.2	540.45	390061	51.8449 ng/ml
Hydromorphone	1.595	294251	674345.51	79.9	783585.21	209841	49.3821 ng/ml
Ketamine	4.051	669757	466.81	35.2	1288.53	662449	49.9993 ng/ml
Lamotrigine	4.280	69920	1648.26	81.9	857.47	662449	54.3235 ng/ml
Levetiracetam	2.676	348042	1932.12	163.6	1546.48	1579707	49.2815 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	690838	5588.92	59.4	1331.43	204279	51.6597 ng/ml
MDA	3.196	910386	4388.87	24.1	382.58	476935	53.2043 ng/ml
MDMA	3.290	539781	11021.93	79.7	2026.20	99825	49.4712 ng/ml
Meprobamate	4.917	395049	458.90	28.4	2369.17	353535	53.2523 ng/ml
Methadone	5.646	934123	28598.17	52.2	1136.89	803221	48.6472 ng/ml
Methamphetamine	3.231	738318	5069.93	36.9	1010.58	579984	52.9610 ng/ml
Metoprolol	4.326	143712	193033.61	95.5	1594.00	1518942	50.8141 ng/ml
Mirtazapine	4.631	808404	4960.20	53.9	1188.42	687352	49.8565 ng/ml
Mitragynine	5.237	208653	552022.50	39.2	1021.08	803221	50.8629 ng/ml
Morphine	1.240	42126	523.91	42.2	123.40	7986	51.1272 ng/ml
Norbuprenorphine	4.986	2028	6048.98	98.9	6291.09	18712	4.9790 ng/ml
Nordiazepam	5.900	484470	6272.70	55.3	994.89	321516	49.2876 ng/ml
Norfentanyl	4.079	135507	1667.14	33.7	321.15	1207357	4.7417 ng/ml
Norhydrocodone	3.060	49303	97.91	42.1	103.73	75849	46.6502 ng/ml
Noroxycodone	2.903	329244	2517.19	45.2	390.51	235234	49.8065 ng/ml
O-desmethyl-tramadol	3.369	1599608	54890.74	6.9	1280.92	1970695	48.5756 ng/ml
Oxazepam	5.749	859364	9516.12	72.0	12756.75	770497	51.6923 ng/ml
Oxycodone	2.827	664744	1003.01	28.1	1404.08	597536	50.7892 ng/ml
Oxymorphone	1.391	338239	∞	44.6	381.13	242671	49.1463 ng/ml
Phentermine	3.783	257043	616.57	3.9	87.27	569612	53.9151 ng/ml
Promethazine	5.538	1064768	1865.23	28.5	60525.21	931057	47.9862 ng/ml
Pseudoephedrine	2.589	1588543	23687.25	16.4	26012.35	1579707	47.1852 ng/ml
Quetiapine	5.562	640430	89766.83	59.0	7706.86	180782	48.6346 ng/ml
Sertraline	5.776	263978	561.75	94.9	13385.83	220110	48.0247 ng/ml
Temazepam	5.816	1534146	31452.74	28.2	1365.35	1462788	47.6013 ng/ml
Tramadol	4.246	1453686	39344.63	3.5	550.77	1518942	49.7159 ng/ml
Trazodone	5.183	707721	217.94	83.4	13113.29	537642	50.6514 ng/ml
Venlafaxine	5.037	1138538	32926.83	35.8	1633.50	1227625	47.4744 ng/ml
Zolpidem	4.935	1599174	5147.37	30.6	3526.25	1704742	50.7504 ng/ml

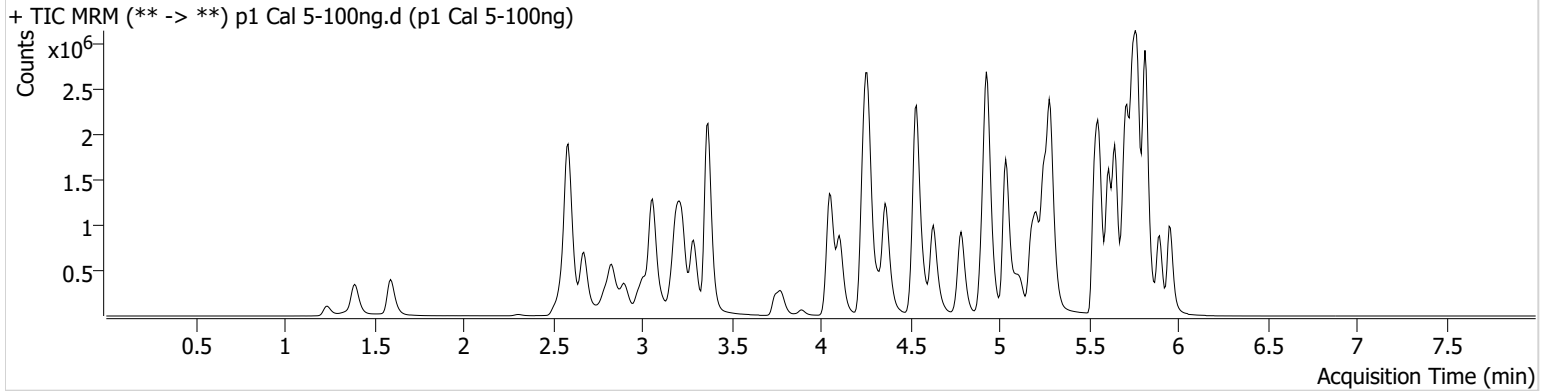


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 5-100ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 5-100ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-E1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:48:54 PM		

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	39631	308.51	67.9	408.45	111485	10.1078 ng/ml
7-aminoclonazepam	4.271	640783	25466.67	75.5	8707.76	376501	100.1065 ng/ml
a-hydroxyalprazolam	5.692	413300	1022.42	58.9	749.18	513271	98.2553 ng/ml
alpha-PHP	4.937	396188	1547.53	264.5	5525.53	762393	100.9677 ng/ml
alpha-PVP	4.370	1740328	42344.98	53.3	66387.48	762393	96.3213 ng/ml
Alprazolam	5.775	1446794	11590.03	110.5	11566.50	513271	98.5773 ng/ml
Amphetamine	3.063	2523361	582.67	50.8	4376.58	310211	102.7755 ng/ml
Benzoylcegonine	3.892	64203	215.47	8.0	6916.98	25095	98.3111 ng/ml
Buprenorphine	5.887	34095	41368.47	14.6	6057.77	141213	9.9956 ng/ml
Bupropion	4.788	1432216	405.34	61.9	1467.29	497702	98.7601 ng/ml
Carisoprodol	5.724	1244083	2269708.47	61.1	1237.71	638939	90.7217 ng/ml
Citalopram	5.212	1070574	8451.30	38.8	484.00	481337	97.3052 ng/ml
Clonazepam	5.612	1513092	104077.20	30.9	459.98	201842	106.0508 ng/ml
Clonazepam	5.549	1105681	918955.44	38.9	877357.23	201842	103.7568 ng/ml
Cocaine	4.257	1425885	26659.97	54.3	65433.87	1291247	98.4223 ng/ml
Codeine	2.566	183351	9620.52	98.1	13599.71	92904	102.7742 ng/ml
Cyclobenzaprine	5.615	940575	1657.41	9.1	136.67	398648	95.9506 ng/ml
Dextromethorphan	5.262	586048	8288.36	79.2	176527.54	299397	98.7331 ng/ml
Dextrophan	4.112	462743	1361.67	205.8	686.97	547603	96.9922 ng/ml
Diazepam	5.960	929187	33346.89	89.0	1570.47	450283	101.0549 ng/ml
Dihydrocodeine	2.545	488326	790.81	70.7	655.46	303007	102.9888 ng/ml
Diphenhydramine	5.289	2525961	805.93	33.7	228.90	1620304	95.0644 ng/ml
Doxylamine	4.536	3286836	10375.88	95.5	57056.31	1480882	98.7379 ng/ml
EDDP	5.254	1242726	27660.00	42.3	278.93	671830	96.6110 ng/ml
Etizolam	5.813	995920	10002.72	25.1	3564.00	201842	91.2975 ng/ml
Fentanyl	5.109	113764	339.19	61.6	234789.18	606719	10.0596 ng/ml
Flualprazolam	5.705	679870	20395.35	98.6	145396.94	513271	103.5568 ng/ml
Fluoxetine	5.700	1065086	374.49	8.5	213753.74	446718	99.4781 ng/ml
Hydrocodone	3.012	692518	∞	41.1	246.63	426530	103.4437 ng/ml
Hydromorphone	1.595	629290	560816.34	79.5	2400.74	222546	100.3602 ng/ml
Ketamine	4.051	1481207	29718.52	35.5	793.40	737410	100.1973 ng/ml
Lamotrigine	4.280	140429	1978.63	80.6	10883.53	737410	99.4248 ng/ml
Levetiracetam	2.676	711824	2733.95	163.7	8130.35	1726113	92.2312 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	1139665	3870.65	60.3	5818.25	201842	87.5028 ng/ml
MDA	3.196	1870347	3438.61	23.5	734.67	495066	106.5011 ng/ml
MDMA	3.290	1179152	1824.76	79.6	3016.21	110835	97.8558 ng/ml
Meprobamate	4.917	731097	557.01	28.6	6358.65	354340	99.8488 ng/ml
Methadone	5.646	1891546	19721.34	52.0	26141.26	832483	95.2743 ng/ml
Methamphetamine	3.231	1591976	2355.75	37.0	9754.47	665065	100.9136 ng/ml
Metoprolol	4.326	326817	2802.29	92.7	1272.44	1704571	103.8484 ng/ml
Mirtazapine	4.631	1682137	5060.80	53.4	180260.65	762393	93.6522 ng/ml
Mitragynine	5.237	406981	2055.99	37.7	262835.39	832483	97.1992 ng/ml
Morphine	1.240	89392	619.90	41.8	390.52	8659	100.8552 ng/ml
Norbuprenorphine	4.986	4217	12989.10	90.6	7059.99	19370	10.2446 ng/ml
Nordiazepam	5.900	998634	19852.87	53.5	1390.77	325389	101.2651 ng/ml
Norfentanyl	4.079	297372	222.97	34.1	723.20	1338336	9.3692 ng/ml
Norhydrocodone	3.060	95803	263.04	42.8	87.22	76127	89.2027 ng/ml
Noroxycodone	2.903	689262	1196.92	43.4	1414.11	242770	101.9709 ng/ml
O-desmethyl-tramadol	3.369	3522198	1404.56	6.8	472.21	2186284	96.8522 ng/ml
Oxazepam	5.749	1550976	25762.80	71.7	4625.66	703092	103.2175 ng/ml
Oxycodone	2.827	1450045	1572.74	27.7	1150.47	657794	101.3861 ng/ml
Oxymorphone	1.391	726184	∞	43.2	∞	255126	101.2032 ng/ml
Phentermine	3.783	557982	652.00	4.0	89.25	635436	106.1937 ng/ml
Promethazine	5.532	2162473	3381.25	28.3	698.76	934278	97.5741 ng/ml
Pseudoephedrine	2.589	3517465	27871.77	16.2	944.09	1726113	95.6907 ng/ml
Quetiapine	5.562	1315625	241.59	58.8	43811.87	187158	96.9179 ng/ml
Sertraline	5.776	499411	438.42	95.7	2125.46	208336	96.7053 ng/ml
Temazepam	5.823	2933015	5369.98	27.8	386.42	1430925	92.3015 ng/ml
Tramadol	4.246	3268534	680.94	3.7	230.29	1704571	100.4606 ng/ml
Trazodone	5.183	1443680	7855.03	83.7	3732.32	552654	101.6054 ng/ml
Venlafaxine	5.037	2584671	2331.81	34.9	1054.76	1350605	98.3492 ng/ml
Zolpidem	4.935	3547457	2526.26	29.8	6577.88	1872338	103.5720 ng/ml

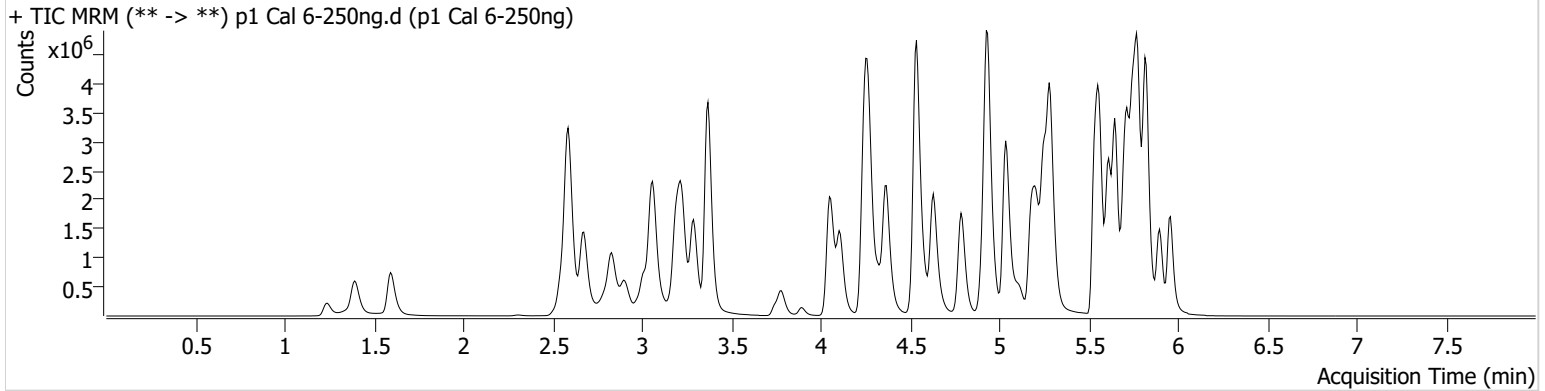


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 6-250ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 6-250ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-F1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 1:59:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	87065	1290.94	66.8	1565.90	95864	25.8660 ng/ml
7-aminoclonazepam	4.271	1247440	16736.22	74.2	7617.72	292076	252.0399 ng/ml
a-hydroxyalprazolam	5.692	689956	1286.33	57.3	461.05	407062	209.1459 ng/ml
alpha-PPH	4.937	767509	1827.71	267.4	39443.81	612967	244.9304 ng/ml
alpha-PVP	4.370	3651418	1564.99	52.6	918.94	612967	252.0205 ng/ml
Alprazolam	5.775	2922997	13593.95	108.8	2682.23	407062	252.2014 ng/ml
Amphetamine	3.063	4741922	7014.24	51.0	23199.73	250008	241.2352 ng/ml
Benzoylcegonine	3.892	157867	640.37	7.7	4698.66	24544	248.3355 ng/ml
Buprenorphine	5.887	73777	135303.85	13.5	16956.25	120142	25.5739 ng/ml
Bupropion	4.788	2929176	1754.84	62.6	1233.58	406595	248.0194 ng/ml
Carisoprodol	5.724	2213577	2523024.16	60.3	∞	439423	232.4428 ng/ml
Citalopram	5.212	2153012	16630.67	38.5	19687.63	375822	251.3687 ng/ml
Clonazepam	5.612	2756889	29341.74	31.7	18775.46	151452	259.4370 ng/ml
Clonazepam	5.549	2142292	117359.97	38.5	1242018.39	151452	269.5572 ng/ml
Cocaine	4.264	2905938	73273.84	53.1	1670.48	1028794	252.6115 ng/ml
Codeine	2.566	352585	4191.48	95.4	10543.70	76877	240.4993 ng/ml
Cyclobenzaprine	5.615	1896599	2565.72	8.9	3658.76	317153	243.8479 ng/ml
Dextromethorphan	5.262	1157417	16942.91	80.7	846.50	231940	252.6612 ng/ml
Dextrophan	4.112	937546	2399.75	206.5	67522.15	432942	249.2738 ng/ml
Diazepam	5.960	1889157	1485.01	87.5	7645.83	366673	253.8186 ng/ml
Dihydrocodeine	2.545	1001697	838.45	71.1	1672.68	265442	242.7864 ng/ml
Diphenhydramine	5.289	5224626	374002.98	33.5	17481.95	1280462	249.5688 ng/ml
Doxylamine	4.536	7128577	13816.13	94.5	177668.27	1227529	259.3548 ng/ml
EDDP	5.254	2638472	699.39	41.1	21431.11	564861	244.6336 ng/ml
Etizolam	5.813	2040629	9709.87	25.0	918974.41	151452	248.8481 ng/ml
Fentanyl	5.109	230522	132.20	65.4	178148.81	516959	24.0030 ng/ml
Flualprazolam	5.705	1325490	34445.17	98.4	26101.99	407062	256.1539 ng/ml
Fluoxetine	5.707	1733787	24810.78	8.4	3952.17	287990	252.3955 ng/ml
Hydrocodone	3.012	1451650	∞	41.3	330.87	365170	254.7700 ng/ml
Hydromorphone	1.595	1308794	4118.10	79.7	5421.04	187246	249.2079 ng/ml
Ketamine	4.051	3183622	40722.55	35.0	3236.08	631192	252.9186 ng/ml
Lamotrigine	4.280	270192	2097.28	82.2	1495.58	631192	225.6781 ng/ml
Levetiracetam	2.676	1521523	4570.26	167.4	4936.03	1391883	244.4623 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	1624089	4467.21	58.6	3933.43	151452	167.8643 ng/ml
MDA	3.196	3469881	7548.52	23.6	1541.51	381583	258.0643 ng/ml
MDMA	3.290	2452726	21753.83	79.1	5902.47	90189	250.9819 ng/ml
Meprobamate	4.917	1298594	97837.19	28.1	4053.64	294014	215.7944 ng/ml
Methadone	5.646	3976642	1176.97	50.5	17935.47	663341	251.7639 ng/ml
Methamphetamine	3.231	3237749	1648.16	36.6	17325.27	545733	252.3434 ng/ml
Metoprolol	4.326	652629	1184109.14	93.8	5543.51	1377172	257.9344 ng/ml
Mirtazapine	4.631	3630293	9905.04	51.9	6984.27	612967	251.6186 ng/ml
Mitragynine	5.237	836827	1233.89	39.3	6559.14	663341	253.4688 ng/ml
Morphine	1.240	194002	804.41	42.1	380.54	7655	248.8191 ng/ml
Norbuprenorphine	4.986	8186	3799.17	97.9	517.42	16100	24.2413 ng/ml
Nordiazepam	5.900	1930229	22425.46	53.0	3211.68	249495	256.5602 ng/ml
Norfentanyl	4.079	615893	11909.54	34.8	541.03	1078309	24.0551 ng/ml
Norhydrocodone	3.059	182059	284.80	41.5	230.32	54642	234.2055 ng/ml
Noroxycodone	2.903	1297684	1877.37	43.8	1090.11	187687	249.6363 ng/ml
O-desmethyl-tramadol	3.369	7824727	31062.30	6.6	1152.79	1837962	256.6725 ng/ml
Oxazepam	5.749	2370143	3267.21	71.2	6579.32	439412	253.8325 ng/ml
Oxycodone	2.827	3111218	3599.66	28.1	2405.17	574861	250.0221 ng/ml
Oxymorphone	1.391	1442838	1736.49	43.8	∞	203271	253.5780 ng/ml
Phentermine	3.783	1090104	∞	4.0	596.96	524587	253.1540 ng/ml
Promethazine	5.532	4578166	28976.44	27.4	29219.28	763639	253.4377 ng/ml
Pseudoephedrine	2.589	7353532	65947.41	15.7	58891.36	1391883	248.1977 ng/ml
Quetiapine	5.562	2689631	102358.99	59.7	316976.32	150375	247.2507 ng/ml
Sertraline	5.776	842500	35726.30	96.2	14805.85	135956	251.1272 ng/ml
Temazepam	5.823	5267382	1562.32	27.1	478.65	991266	238.0670 ng/ml
Tramadol	4.246	6767166	1364.36	3.6	746.89	1377172	258.7645 ng/ml
Trazodone	5.183	3080326	1889.59	83.5	64999.18	487756	247.2035 ng/ml
Venlafaxine	5.037	5392404	228740.62	34.7	35605.10	1104832	251.3957 ng/ml
Zolpidem	4.935	7591807	102665.01	29.0	643.79	1630660	256.0298 ng/ml

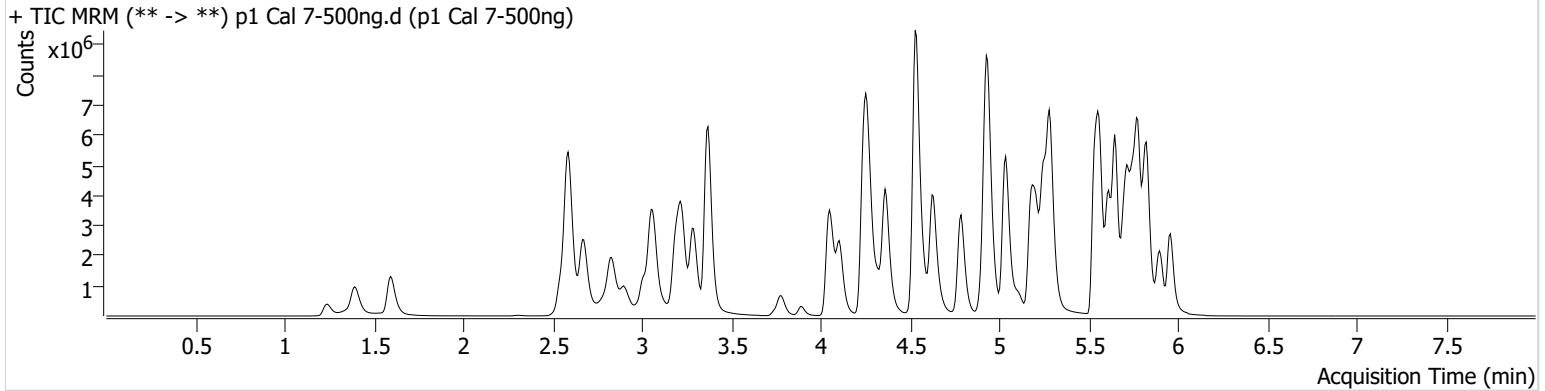


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 7-500ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 7-500ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-G1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 2:10:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	176640	3738.78	69.2	643.36	98004	51.3589 ng/ml
7-aminoclonazepam	4.271	1903921	12543.74	74.9	16969.63	219747	511.8588 ng/ml
a-hydroxyalprazolam	5.685	888559	255.15	56.6	1213.30	328792	334.7167 ng/ml
alpha-PHP	4.937	1259348	3241.36	268.2	18972.62	581149	424.7469 ng/ml
alpha-PVP	4.363	7163010	116038.83	51.7	57119.75	581149	521.8978 ng/ml
Alprazolam	5.775	4868188	1454.26	108.2	∞	328792	520.7666 ng/ml
Amphetamine	3.063	7717838	67695.97	49.3	2552.50	216946	453.5098 ng/ml
Benzoylcegonine	3.892	359938	24157.11	7.7	178.09	25527	545.3135 ng/ml
Buprenorphine	5.887	132779	26825.05	13.9	24512.25	112885	49.0742 ng/ml
Bupropion	4.788	5791892	1023.37	60.9	58118.75	388321	514.0417 ng/ml
Carisoprodol	5.724	3215215	1895546.52	59.7	6160.98	294642	501.8559 ng/ml
Citalopram	5.212	4005089	719.15	37.9	13184.51	338153	520.1912 ng/ml
Clonazepam	5.612	4068022	64777.00	31.4	50912.75	122184	475.6384 ng/ml
Clonazepam	5.549	3117721	122536.14	39.0	887324.15	122184	487.0958 ng/ml
Cocaine	4.257	5457084	968.77	52.9	78370.95	946368	516.2714 ng/ml
Codeine	2.566	581560	1210.12	95.7	468.39	69794	437.9686 ng/ml
Cyclobenzaprine	5.615	3600855	1570.38	8.6	878.27	279178	526.4343 ng/ml
Dextromethorphan	5.255	2010339	662.82	80.4	41639.44	198283	513.9798 ng/ml
Dextrophan	4.105	1720748	827814.41	207.8	82170.22	385838	513.8506 ng/ml
Diazepam	5.960	3314415	480.26	89.7	9378.54	325793	502.1700 ng/ml
Dihydrocodeine	2.545	1910302	426.14	70.3	2227.87	274894	448.1109 ng/ml
Diphenhydramine	5.289	9949825	233820.37	32.7	58877.17	1133633	537.3766 ng/ml
Doxylamine	4.529	14923274	29509.78	95.1	2971.76	1241166	537.6493 ng/ml
EDDP	5.248	5027254	229381.68	40.3	72942.50	501729	525.2725 ng/ml
Etizolam	5.813	3615911	9326.26	24.2	35288.79	122184	546.2574 ng/ml
Fentanyl	5.103	460355	286.54	63.9	478441.93	479550	51.7404 ng/ml
Flualprazolam	5.705	2067101	32816.59	104.7	49435.74	328792	495.5747 ng/ml
Fluoxetine	5.707	2637477	6553.71	8.4	5582.61	218206	507.5403 ng/ml
Hydrocodone	3.012	2748043	1703.82	41.6	∞	359354	491.0520 ng/ml
Hydromorphone	1.595	2527144	9823924.67	79.8	31266.35	177102	509.5533 ng/ml
Ketamine	4.051	6600432	132924.98	33.5	3760.32	643678	515.0932 ng/ml
Lamotrigine	4.280	464225	5112.06	82.4	3960.04	643678	381.4247 ng/ml
Levetiracetam	2.676	2769774	22609.17	166.0	20127.43	1227065	504.7781 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.740	1752367	12422.57	57.1	5539.36	122184	225.1400 ng/ml
MDA	3.196	5492028	3602.97	23.2	1868.91	326361	478.6099 ng/ml
MDMA	3.290	4493581	80877.10	79.5	2151.06	80753	514.1083 ng/ml
Meprobamate	4.911	1827830	34298.20	28.5	17948.08	260959	343.2674 ng/ml
Methadone	5.646	7558380	108953.14	51.0	302573.96	603363	526.3561 ng/ml
Methamphetamine	3.224	5828308	26398.54	36.3	1870.80	505317	492.0004 ng/ml
Metoprolol	4.326	1167260	1139287.95	92.6	8876.51	1279203	497.4500 ng/ml
Mirtazapine	4.631	7080831	121964.60	52.2	52651.79	581149	517.7953 ng/ml
Mitragynine	5.237	1551304	1078.24	39.3	633.56	603363	518.3265 ng/ml
Morphine	1.240	371815	7222.08	43.9	4888.90	7232	505.6246 ng/ml
Norbuprenorphine	4.986	15886	64933.56	99.0	72845.81	14739	51.6610 ng/ml
Nordiazepam	5.900	3075967	745.52	54.3	1434.01	202769	503.8749 ng/ml
Norfentanyl	4.079	1182558	3872.54	35.0	8979.24	921595	54.0184 ng/ml
Norhydrocodone	3.053	330494	260.91	43.3	192.24	46616	497.0109 ng/ml
Noroxycodone	2.903	2060128	1719.36	44.9	588.37	151838	490.7537 ng/ml
O-desmethyl-tramadol	3.369	15493254	257824.71	6.4	1492.18	1739474	537.4846 ng/ml
Oxazepam	5.749	2655447	114.78	69.6	4087.66	254344	492.2522 ng/ml
Oxycodone	2.827	6186209	15136.39	27.7	1651.82	573407	499.1475 ng/ml
Oxymorphone	1.391	2626681	∞	45.1	∞	183954	510.9295 ng/ml
Phentermine	3.783	1879176	4045.73	3.9	1989.04	474086	484.1137 ng/ml
Promethazine	5.532	9026279	10703.83	26.9	4769.20	714406	534.6018 ng/ml
Pseudoephedrine	2.589	13934641	121953.71	15.4	48076.52	1227065	533.5780 ng/ml
Quetiapine	5.562	5429159	69223.31	58.1	∞	141274	531.7199 ng/ml
Sertraline	5.776	1331893	8224.57	91.7	603.48	105355	513.0590 ng/ml
Temazepam	5.823	7457574	100026.15	27.1	12566.66	659567	505.6996 ng/ml
Tramadol	4.239	12771766	7414.65	3.4	2959.92	1279203	526.6465 ng/ml
Trazodone	5.176	6267172	127072.37	83.3	4193.63	485455	506.4943 ng/ml
Venlafaxine	5.037	10457346	5026.49	33.8	588.39	1018753	529.1209 ng/ml
Zolpidem	4.935	15689118	40265.65	28.7	1452.89	1670122	517.6727 ng/ml



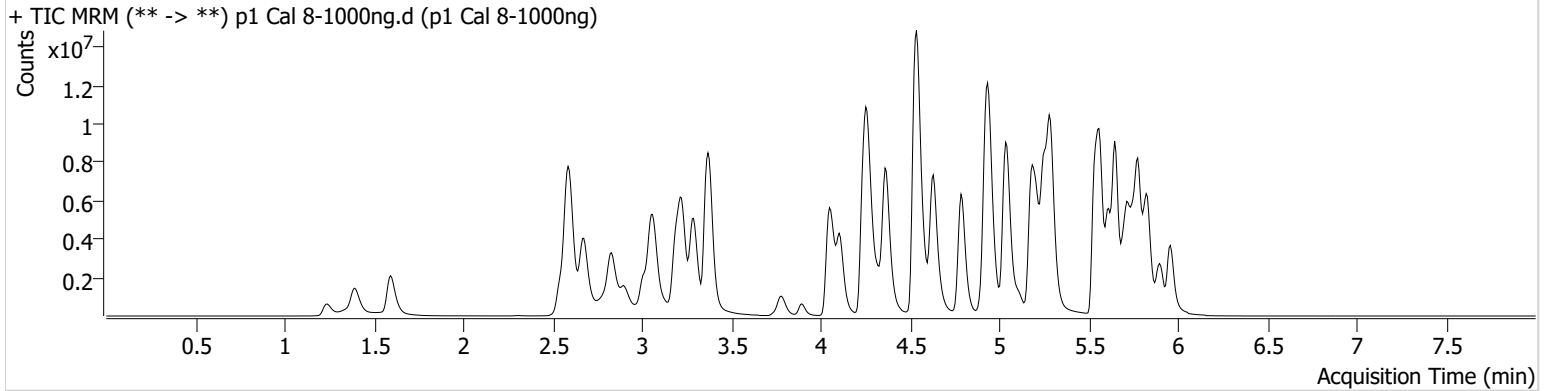


# AM #28 Multi-Drug Quant. Results

**Batch results** C:\Users\agerheart\Desktop\080321 AM 27 28 AG\QuantResults\AM 28.batch.bin  
**Calibration Last Update** 8/5/2021 10:00:02 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	p1 Cal 8-1000ng.d
<b>Type</b>	Cal	<b>Sample</b>	p1 Cal 8-1000ng
<b>Acq. Method</b>	AM 28 MDQ P1.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P6-H1	<b>Comment</b>	
<b>Injection Volume</b>	2		
<b>Acq. Date-Time</b>	8/3/2021 2:20:42 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
6-MAM	3.124	344004	1875.46	68.9	6366.65	95425	102.7508 ng/ml
7-aminoclonazepam	4.278	2114301	10032.54	74.8	9242.51	126612	987.0550 ng/ml
a-hydroxyalprazolam	5.685	1029497	496.05	56.5	1889.80	243198	525.4883 ng/ml
alpha-PHP	4.937	2090547	1753.10	269.9	182984.45	558693	734.2806 ng/ml
alpha-PVP	4.370	13966773	371831.40	52.6	5171.53	558693	1058.9446 ng/ml
Alprazolam	5.775	7013080	3433.54	109.5	∞	243198	1014.9129 ng/ml
Amphetamine	3.063	12054352	10446.22	49.2	27333.32	196095	784.5145 ng/ml
Benzoylcegonine	3.892	724735	100221.62	8.0	3095.43	26489	1058.8508 ng/ml
Buprenorphine	5.887	217907	50094.97	14.4	56042.60	97170	93.6512 ng/ml
Bupropion	4.788	11301343	420412.91	60.7	2649.55	381653	1021.0487 ng/ml
Carisoprodol	5.730	3962876	1040030.84	58.3	10985.39	176359	1031.9033 ng/ml
Citalopram	5.212	6373306	80140.09	37.4	∞	270457	1035.4415 ng/ml
Clonazepam	5.612	5123202	26363.13	30.6	14408.19	82945	883.5384 ng/ml
Clonazolam	5.555	3835909	192463.36	38.2	297729.39	82945	883.6573 ng/ml
Cocaine	4.257	9552426	1557.82	52.8	756.59	814301	1050.8516 ng/ml
Codeine	2.566	850864	286.54	94.6	360.87	61272	730.7320 ng/ml
Cyclobenzaprine	5.615	5430602	199826.61	8.6	76557.50	210918	1051.3085 ng/ml
Dextromethorphan	5.262	2874389	32995.28	80.1	1888.46	143587	1015.4331 ng/ml
Dextrophan	4.112	3148875	61659.28	209.3	1566.77	346540	1047.4302 ng/ml
Diazepam	5.960	4857192	487.88	90.9	65861.69	249204	963.0165 ng/ml
Dihydrocodeine	2.538	3107504	380.29	70.1	1733.09	275881	727.0938 ng/ml
Diphenhydramine	5.289	16072183	229362.25	33.0	1859.92	924812	1064.4939 ng/ml
Doxylamine	4.542	26548748	2731.39	96.3	431618.06	1270665	934.7431 ng/ml
EDDP	5.254	9897868	72410.24	40.0	43453.29	495081	1048.5046 ng/ml
Etizolam	5.813	5330655	1836.69	24.2	8146.13	82945	1185.9622 ng/ml
Fentanyl	5.109	794825	464.27	62.7	9144.14	411851	104.0749 ng/ml
Flualprazolam	5.705	2797051	8187.20	103.5	10371.49	243198	907.4843 ng/ml
Fluoxetine	5.707	3007861	23146.29	8.3	342000.83	130486	968.6471 ng/ml
Hydrocodone	3.012	4853174	607.77	41.6	292.92	345479	902.9171 ng/ml
Hydromorphone	1.595	4377267	1281688.21	79.8	1324093.32	156367	1000.3749 ng/ml
Ketamine	4.051	11758977	487556.98	33.5	1067.42	621628	950.9501 ng/ml
Lamotrigine	4.287	587254	17832.56	84.7	597.51	621628	500.1685 ng/ml
Levetiracetam	2.676	4402078	5829.85	169.3	4535.26	974630	1010.0350 ng/ml



# AM #28 Multi-Drug Quant. Results

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Lorazepam	5.747	1768838	24926.96	59.1	9399.71	82945	335.6749 ng/ml
MDA	3.189	8294934	3531.87	23.0	4934.55	281688	838.4306 ng/ml
MDMA	3.290	8258881	8232.93	78.4	3008.92	74770	1021.0314 ng/ml
Meprobamate	4.911	2113538	48764.60	28.4	32081.51	219827	471.8629 ng/ml
Methadone	5.646	12280265	51319.37	50.7	48728.06	483583	1067.2523 ng/ml
Methamphetamine	3.224	10587618	4993.11	35.0	29821.04	507488	891.1560 ng/ml
Metoprolol	4.326	1976887	5282.92	93.5	76601.33	1183370	911.4246 ng/ml
Mirtazapine	4.631	13117446	199247.74	51.8	183864.93	558693	997.9137 ng/ml
Mitragynine	5.237	2332679	77498.92	38.7	1274655.68	483583	973.9231 ng/ml
Morphine	1.240	647062	∞	42.5	7491.20	6708	949.4618 ng/ml
Norbuprenorphine	4.992	25947	194.94	96.3	4682.31	12249	101.7530 ng/ml
Nordiazepam	5.900	4131279	20228.34	54.5	297.98	143028	960.1829 ng/ml
Norfentanyl	4.079	2079585	8022.95	34.6	1889.59	747762	117.0559 ng/ml
Norhydrocodone	3.060	576937	263.23	45.7	∞	39108	1032.8997 ng/ml
Noroxycodone	2.903	3251231	681.37	43.7	472.18	114921	1024.2821 ng/ml
O-desmethyl-tramadol	3.369	24650664	58599.90	6.9	23224.74	1511510	984.5161 ng/ml
Oxazepam	5.749	2483866	25683.51	70.2	62319.72	125908	931.0277 ng/ml
Oxycodone	2.827	11257444	6578.09	27.0	5019.71	540536	964.2751 ng/ml
Oxymorphone	1.391	4448242	1557.63	43.8	∞	167007	953.7509 ng/ml
Phentermine	3.783	3187315	6637.46	3.9	171.10	474703	820.9881 ng/ml
Promethazine	5.532	13555883	65401.88	27.4	3060.97	552482	1038.6053 ng/ml
Pseudoephedrine	2.589	22632015	234598.31	15.5	125627.02	974630	1091.1455 ng/ml
Quetiapine	5.562	9285313	∞	58.4	17510.84	125089	1027.4371 ng/ml
Sertraline	5.776	1551644	15338.11	95.1	48021.29	58414	1078.8165 ng/ml
Temazepam	5.830	8403969	∞	27.3	10813.02	369352	1016.8737 ng/ml
Tramadol	4.239	20854781	2215.94	3.6	575.17	1183370	930.2414 ng/ml
Trazodone	5.176	11781621	14842.43	82.2	2426.23	471729	980.8936 ng/ml
Venlafaxine	5.037	19692277	134214.78	35.1	115389.67	973117	1043.4712 ng/ml
Zolpidem	4.935	24569734	188897.07	30.6	250833.71	1538435	880.8218 ng/ml