

WAB

12/19/2024

Worklist: 7002

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
M2024-5047	2	UCK	AM 6 Urine GHB

REVIEWED
By Britany Wylie at 9:37 am, Dec 20, 2024



NMB

AM 6: Urine GHB Screening Extraction

Extraction Date: 12/12/2024

Analyst: Mikel Buffaloe

Mobile phase A: 0.1% Formic Acid in Water
0.1% formic acid in methanol

Mobile phase B: 0.1% Formic Acid in MeOH
0.1% formic acid in water

Blank Urine Lot: 1224
LCMS-QQQ ID: 69679

Column: Agilent poroshell 120 (4.6x50mm, 2.7um)
GHB Control Lot: 121224

Pre-Analytic:

- 1. *Positive Control Working Solution Preparation Instructions:*
 - *Working Solution:* Preparation of 200,000 ng/mL Positive Control Working Solution: Add 200µL of GHB 1 mg/mL stock solution to 800µL negative urine.
 - Preparation of 10,000 ng/mL Positive Control: Add 10µL of GHB 20,000 ng/mL working solution to 190 µL negative urine.
- 2. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 3. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

- 1. Remove working solutions, controls, and samples from cold storage.
- 2. Label centrifuge tubes for positive control, negative control and case samples.
- 3. Label ALS or LCMS vials for positive control, negative control, and case samples. Place insert in all vials.
- 4. Place on tube rocker at ambient temp for approx. 10 minutes.
- 5. Pipette positive and negative controls (for negative control, 200 µL urine will be added to the appropriate tube). Add 200µL urine to each centrifuge tube for case samples.
- 6. Add 100µL of the GHB-D6 Internal Standard Working Solution to each tube.
- 7. Add 900µL of 0.1% formic acid in methanol to each tube. Vortex. *Made fresh 195725 fisher formic acid, N195D Honeywell Methanol 12/12/24 MCB*
- 8. Centrifuge at ~3400 rpm for 15 minutes.
- 9. Add 100µL 0.1% formic acid in water to each vial insert.
- 10. Transfer 10µL of sample from each centrifuge tube to the corresponding vial insert (avoid disturbing the pellet at the bottom). Vortex.

Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.
- 2. Using the positive control, a 1-point calibration curve will be established. The curve will be set to linear, non-weighted and origin set to force.
- 3. If a sample gives a response that is greater than 10,000 ng/mL, a statement on the report will be included saying that preliminary testing indicated a possible presence of an elevated level of GHB and that it is recommended that the sample be sent to a private lab for quantitation. If a sample gives a response between 7,000 and 10,000 ng/mL, an inconclusive statement can be added to the report.
- 4. The S/N for samples and controls at and over 10,000 ng/mL must be 5 or greater
- 5. Case samples and negative controls will generally be considered negative if the calculated concentration is less than 7,000 ng/mL.
- 6. Central File Packet to include: LIMS Worklist, Method Checklist, Working solution prep sheet(s), Calibration and Control Reports

COMMENTS:

Run was re-injected at 5µL
Supervised Casework by AMN

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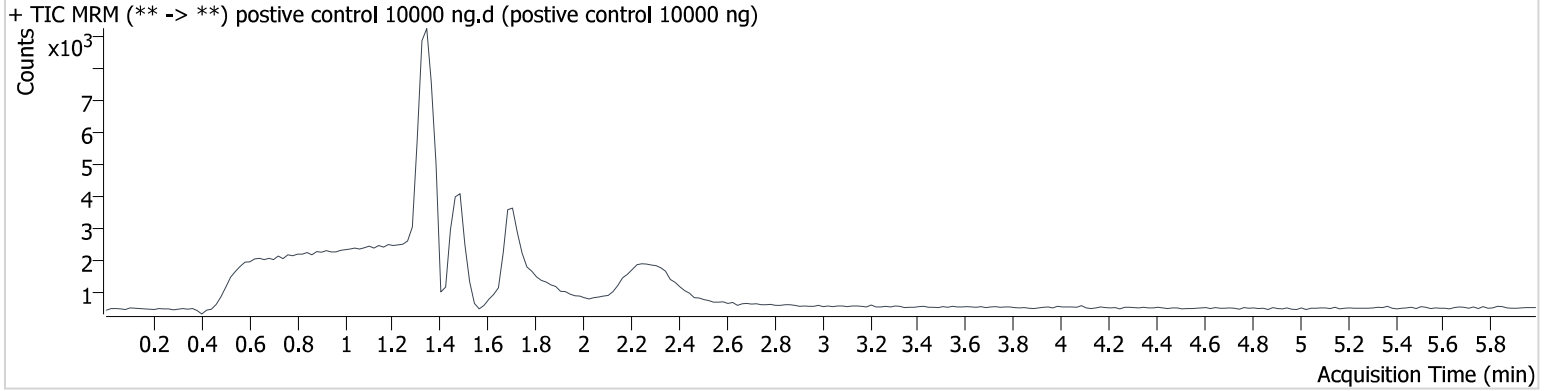
GHB Screen results

Batch results D:\MassHunter\Data\2024\ghb\12122024\QuantResults\am 6-1.batch.bin
Calibration Last Update 12/17/2024 11:53:07 AM

Instrument	69679	Data File	postive control 10000 ng.d
Type	Cal	Sample	postive control 10000 ng
Acq. Method	GHB urine screen.m	Operator	Mikel Buffaloe
Sample Position	Vial 2	Comment	
Injection Volume	3		
Acq. Date-Time	12/12/2024 12:26:01 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
GHB	1.707	5603	12.6	14.2	19223	10000.000

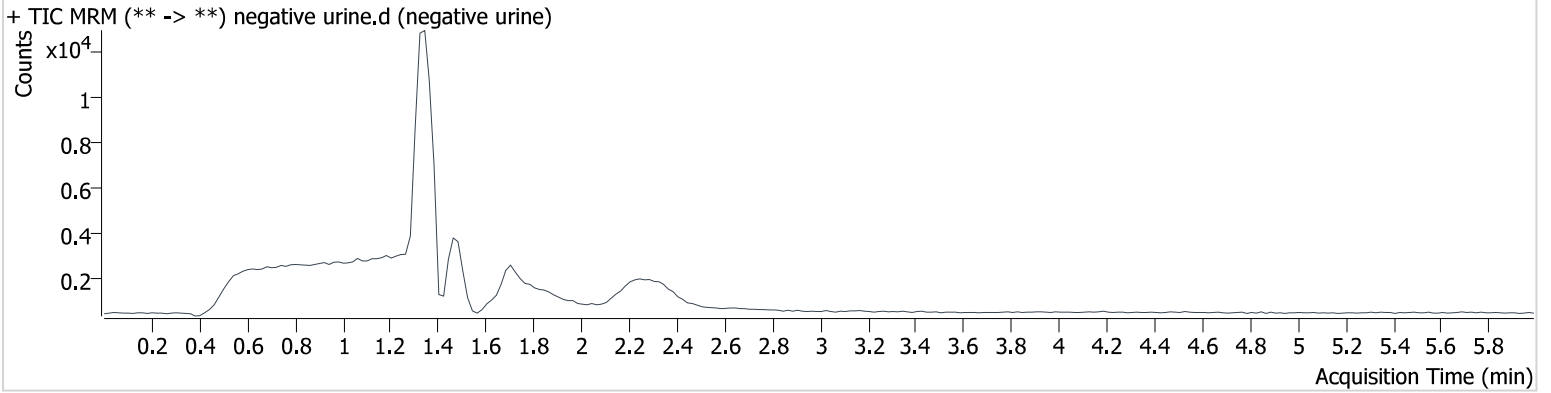
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GHB Screen results

Batch results D:\MassHunter\Data\2024\ghb\12122024\QuantResults\am 6-1.batch.bin
Calibration Last Update 12/17/2024 11:53:07 AM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	GHB urine screen.m	Operator	Mikel Buffaloe
Sample Position	Vial 3	Comment	
Injection Volume	3		
Acq. Date-Time	12/12/2024 12:32:28 PM		

Sample Chromatogram



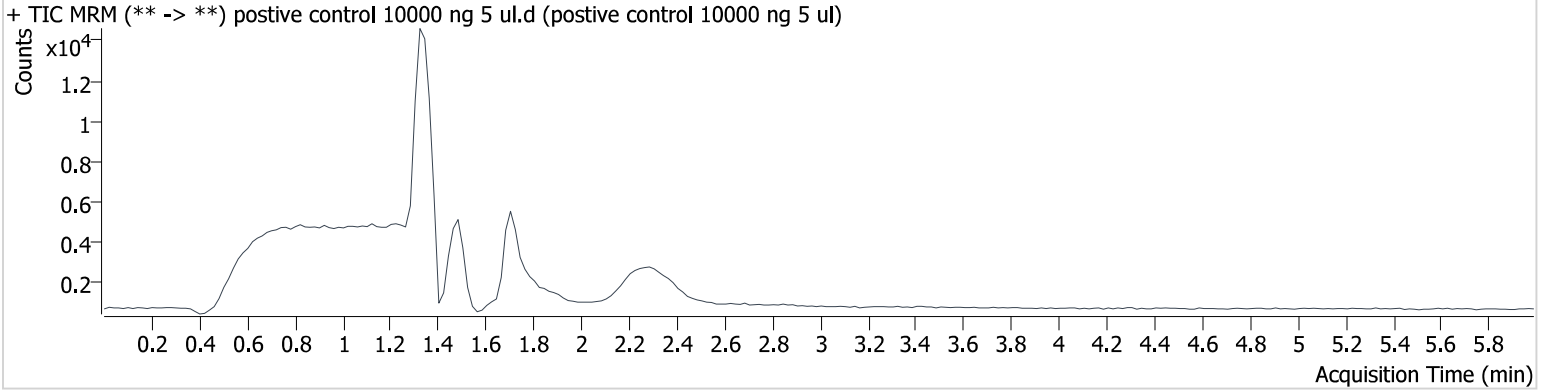
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GHB Screen results

Batch results D:\MassHunter\Data\2024\ghb\12122024\QuantResults\am 6-2.batch.bin
Calibration Last Update 12/17/2024 11:52:37 AM

Instrument	69679	Data File	postive control 10000 ng 5 ul.d
Type	Cal	Sample	postive control 10000 ng 5 ul
Acq. Method	GHB urine screen.m	Operator	Mikel Buffaloe
Sample Position	Vial 2	Comment	
Injection Volume	5		
Acq. Date-Time	12/12/2024 1:30:28 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
GHB	1.707	9761	20.1	19.3	23670	10000.000

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GHB Screen results

Batch results D:\MassHunter\Data\2024\ghb\12122024\QuantResults\am 6-2.batch.bin
Calibration Last Update 12/17/2024 11:52:37 AM

Instrument	69679	Data File	negative urine 5 ul.d
Type	Sample	Sample	negative urine 5 ul
Acq. Method	GHB urine screen.m	Operator	Mikel Buffaloe
Sample Position	Vial 3	Comment	
Injection Volume	5		
Acq. Date-Time	12/12/2024 1:36:55 PM		
Sample Info.			

Sample Chromatogram

