



10/15/2021

REVIEWED

By Brittany Wylie at 3:15 pm, Oct 15, 2021

Worklist: 5292

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>
C2021-2196		UCK	AM 6 Urine GHB





AM 6: Urine GHB Screening Extraction

Extraction Date: 10/15/21

Analyst: Anne Nord

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: 83121

Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

LCMS-QQQ ID:

GHB Control Lot: 9221

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.
- ☒ 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:



GHB controls

200000 ng/ml working solution 200 ul 1 mg/ml GHB into 800 ul neg urine (83121)

ppd 9/2/21 Exp 3/2/22 lot 9221 by AMN

Drug	lot	expiration
GHB	FE04111903	5/1/2024

20000 ng/ml working internal standard solution 1ml 100ul/ml GHB D6 stock in 4000 ul methano

Ppd 9/2/21 exp 3/2/22 lot GHB-D6 9221 by amn

Drug	lot	expiration
GHB-D6	FE03232020	4/1/2025

* AM 6 Control: add 10uL of working solution to 190uL negative urine and extract. Approx conc 10,000ng/ml

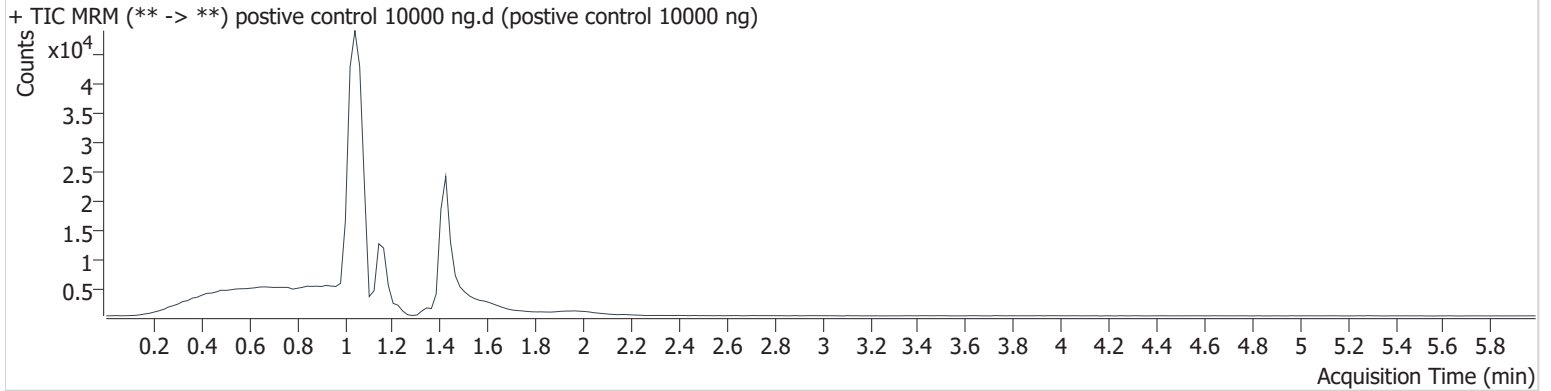
GHB Screen results

Batch results D:\MassHunter\Data\2021 Data\ghb 101521\QuantResults\ghb.batch.bin
Calibration Last Update 10/15/2021 1:16:57 PM

Instrument	69679	Data File	postive control 10000 ng.d
Type	Cal	Sample	postive control 10000 ng
Acq. Method	GHB urine screen.m	Operator	Anne Nord
Sample Position	Vial 2	Comment	
Injection Volume	3		
Acq. Date-Time	10/15/2021 12:25:20 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
GHB	1.426	32752	178.9	12.2	54746	10000.000

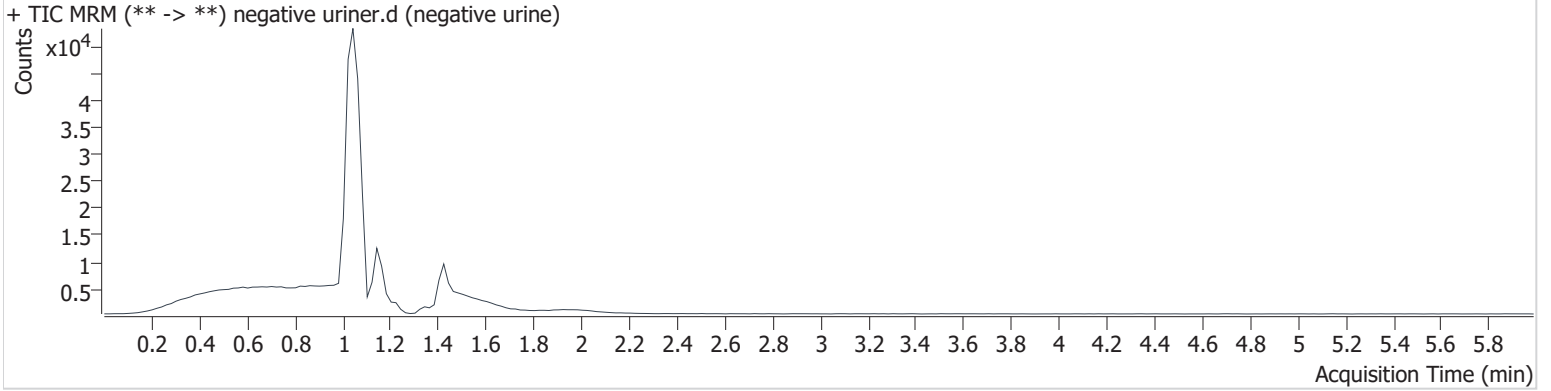
GHB Screen results

Batch results D:\MassHunter\Data\2021 Data\ghb 101521\QuantResults\ghb.batch.bin
Calibration Last Update 10/15/2021 1:16:57 PM

Instrument	69679	Data File	negative uriner.d
Type	Sample	Sample	negative urine
Acq. Method	GHB urine screen.m	Operator	Anne Nord
Sample Position	Vial 3	Comment	
Injection Volume	3		
Acq. Date-Time	10/15/2021 12:31:47 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
GHB	1.426	1562	3.5	4.6	55296	472.128 < 7000

Negative response less than 7000