REVIEWED

By Celena Shrum at 1:18 pm, Aug 18, 2022



Worklist: 6067

LAB CASE ITEM ITEM TYPE DESCRIPTION

M2022-2311 2 UCK AM 6 Urine GHB





AM 6: Urine GHB Screening Extraction

Extraction Date: 08/17/2022 Analyst: Tamara Salazar –HOA Amber Gerheart **Mobile phase A**: 0.1% Formic Acid in Water **Mobile phase B**: 0.1% Formic Acid in MeOH

0.1% formic acid in methanol 0.1% formic acid in water

Blank Urine Lot: POC021022 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

LCMS-QQQ ID: 069901

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.

Analytic:

- ☑ 3. Pipette positive control into corresponding centrifuge tube.
 - Preparation of 10,000 ng/mL Positive Control: Add 10μL of GHB 20,000 ng/mL working solution to 190 μL negative urine. *Working Solution Lot:* **WS081722**
- ⊠ 5. 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.
- \boxtimes 8. Centrifuge at ~3400 rpm for 15 minutes.
- ☑ 9. Label ALS or LCMS vials for positive control, negative control, and case samples. Place insert in all vials.
- ⊠ 10. Add 100μL 0.1% formic acid in water to each vial insert.
- ⊠ 11. 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: Extraction initially performed on 08/16/2022; however, the positive control was improperly prepared. The extraction was re-done on 08/17/2022.





Idaho State Police Forensic Services

AM #6 Screening for Gamma-Hydroxybutyrate (GHB) in Urine

GHB-D6 Internal Standard Solution

1mL of GHB-D6 0.1mg/mL stock solution to 4mL methanol.

Component	Source	Source Lot Number	Expiration Date
GHB-D6	Cerilliant	FE07031801	09/30/2023
Methanol	Fisher	215245	-
Prepared:	08/17/2022		
Prepared By:	Amber Gerheart		
Expires:	02/17/2023		

200,000 ng/mL Positive Control Working Solution (WS081722)

200uL of GHB 1mg/mL stock to 800uL negative urine.

Component	Source	Source Lot Number	Expiration Date
GHB	Cerilliant	FE04111903	05/31/2022
Negative Urine	-	POC021022	
Prepared:	08/17/2022		
Prepared By:	Amber Gerheart		
Expires:	02/17/2023		

AM #6 GHB Screen Results



Batch results D:\MassHunter\Data\2022\AM 6\081722 AM 6 TS AG\QuantResults\AM 6_Evaluated.batch.bin 8/18/2022 9:19:54 AM

Instrument Falco (069901)

Type Cal GHB urine screen.m

Sample Position P6-C1 **Injection Volume** 2.5

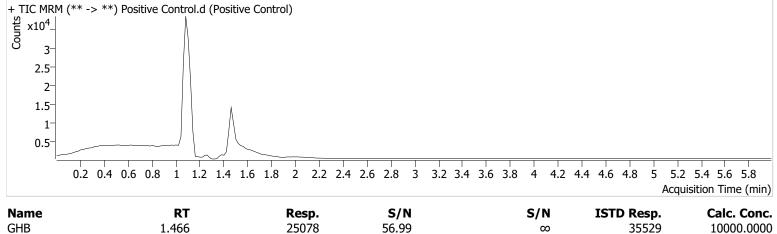
Acq. Date-Time 8/17/2022 4:05:21 PM

Sample Info.

Data File Sample Operator Comment

Positive Control.d Positive Control Tamara Salazar

Sample Chromatogram





AM #6 GHB Screen Results



Batch results D:\MassHunter\Data\2022\AM 6\081722 AM 6 TS AG\QuantResults\AM 6_Evaluated.batch.bin 8/18/2022 9:19:54 AM

InstrumentFalco (069901)TypeSampleAcq. MethodGHB urine screen.m

Sample Position P6-C2 **Injection Volume** 2.5

Acq. Date-Time 8/17/2022 4:11:56 PM

Sample Info.

Data File Sample Operator Comment Negative Control.d Negative Control Tamara Salazar

Sample Chromatogram

