

Worklist: 6473

LAB CASE ITEM ITEM TYPE DESCRIPTION

M2023-3392 4 UCK AM 6 Urine GHB





AM 6: Urine GHB Screening Extraction

Extraction Date: 08/21/2023 Analyst: Tamara Salazar

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: POC021011 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.
- ☑ 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:

- □ I. Remove working solutions, controls, and samples from cold storage. Place on tube rocker at ambient temp for approx. 10 minutes.
- ☑ 3. Pipette positive control into corresponding centrifuge tube.
 - Preparation of 10,000 ng/mL Positive Control: Add 10μL of GHB 200,000 ng/mL working solution to 190μL negative urine. *Working Solution Lot: WS082123*
- × 4. Pipette negative controls (for negative control, 200μL urine will be added to the appropriate tube) into corresponding centrifuge tube.
- \boxtimes 5. Add 200 μ L 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.

COMMENTS:



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	220776	-
Prepared:	04/04/2023		
Prepared By:	Tamara Salazar		
Expires:	09/30/2023		

200,000 ng/mL Positive Control Working Solution (WS082123)

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

Component	Source	Source Lot Number	Expiration Date
GHB	Cerilliant	FE04111903	05/31/2024
Negative Urine	-	POC021022	
Prepared:	08/21/2023		
Prepared By:	Tamara Salazar		
Expires:	09/30/2023 02/21/2024		





AM #6 GHB Screen Results



Batch results D:\MassHunter\Data\2023\AM 6\082123 AM 6 TS\QuantResults\AM 6.batch.bin

Calibration Last Update 8/21/2023 11:36:24 AM

InstrumentFalco (069901)TypeCalAcq. MethodGHB urine screen

GHB urine screen.m P3-A1

Sample Position Injection Volume Acq. Date-Time

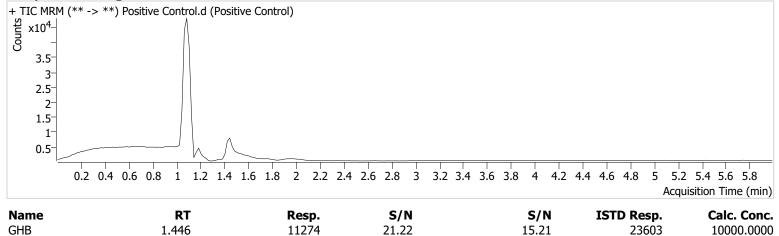
2.5 8/21/2023 11:16:37 AM

Sample Info.

Data File Sample Operator Comment

Positive Control.d Positive Control Tamara Salazar

Sample Chromatogram





AM #6 GHB Screen Results

Data File

Sample



D:\MassHunter\Data\2023\AM 6\082123 AM 6 TS\QuantResults\AM 6.batch.bin **Batch results**

Calibration Last Update 8/21/2023 11:36:24 AM

Instrument **Type** Acq. Method **Sample Position** Falco (069901) Sample

P3-A2 2.5

Injection Volume Acq. Date-Time Sample Info.

GHB urine screen.m

8/21/2023 11:23:14 AM

Operator Comment Negative Control.d Negative Control Tamara Salazar

Sample Chromatogram

