

Deviation from Documented Procedures Form BAC Whole Blood Control Deviation

Date of Deviation: April 16, 2024 until whole blood lot numbers below are used in entirety

Type of Deviation: Procedural

Describe the Deviation:

Whole blood controls were tested for stability past the manufacturer's 45-day expiration date after opening. The following whole blood controls Levels 1 and 2 that were open past 45 days were added to a batch run in addition to unexpired controls in order to re-verify their concentration:

Whole Blood Ethanol Control Level 1 (S-24-5002A)

Lot Number: 2401241

Expiration Date: 2028-02

Whole Blood Ethanol Control Level 2 (S-24-5003A)

Lot Number: 2302120

Expiration Date: 2027-05

The storage and stability of both whole blood controls states on the COAs as follows:

LiquiSPx Whole Blood Ethanol Control is stable until the expiration date on the package when stored unopened at 2-8° C and 45 days after opening when stored at 2-8° C. Discard any contaminated material. Microbial contamination is evidenced by an increase in turbidity and/or a characteristic odor.

The acceptance criteria for re-verification was 5%. The Lead Toxicologist added both of the above listed whole blood control levels to a batch run to test for stability. S-24-5002A and S-24-5003A were run in BAC_20240620_MH and able to achieve re-verification and therefore extend the expiration to 60 days after opening. A note regarding the meeting of re-verification criteria was listed in the batch.

TOX-02-01 Ethanol Analysis Using Headspace Gas Chromatography

7.4 Whole Blood Controls (Blood QC A and Blood QC B)

7.4.1 Blood QC A is a purchased control at a low ethanol concentration.

7.4.2 Blood QC B is a purchased control at a high ethanol concentration.

*7.4.3 Storage: **Storage:** Refrigerator **Discard:** CRM expiration date*

LOG-16-08 Standards, Controls, and Reagents

3.3.3 Reagents, stock solutions, reference material dilutions and chemicals used in the Laboratory shall be re-verified when it has exceeded its shelf life according to the guidelines in 3.5.2. Each shall be determined to still be suitable for its intended purpose. Upon successful re-verification, any material past the manufacturer's expiration may only be used for research and training purposes. Material used in casework cannot be expired. If acceptable re-verification is not achieved, the reagent or solution may not be used.

BAC Whole Blood Control Deviation

3.5.2 Re-verification based on the shelf-life of materials shall occur according to the guidelines below:
3.5.2.2 Purchased reagents that require refrigeration will be retested every three years, if not expired per the manufacturer.

Reason for Deviation:

This re-verification was to ensure stability and establish the extent of the shelf-life of the product from the manufacturer's 45-day expiration to 60 days after opening so that these whole blood controls may be used past the 45-day manufacturer's expiration in the future.

Laboratory Number(s) (if applicable): N/A

Brazoria County Sheriff's Office Crime Laboratory

Summer Swargo
Evidence Technician

9.6.24
Date

Kayla M. Bayler
Toxicologist

9/6/2024
Date

Melina Henry
Toxicologist

9/6/2024
Date

Allie White
Quality Assurance Manager

6 Sept. 2024
Date

Derek Starz
Laboratory Director

06 Sept 2024
Date