



# Houston Forensic Science Center

## INTEROFFICE MEMO

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**To:** Jackeline Moral, Director – Quality

**From:** Dayong Lee, Ph.D., F-ABFT, Manager – Toxicology

**CC:** Amy Castillo, Ph.D., Chief Operating Officer

**Date:** August 17, 2023

**Re:** Identification of Additional Batches Related to Quality Report 2022-047

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Quality Report 2022-047 was originally issued on January 14, 2023, with a list of affected cases listed in Appendix A of the report. After the report was issued, 29 additional cases were identified. The quality report was amended on May 11, 2023, with the additional cases listed in Appendix B. After issuing the amended report, two incorrect forensic case numbers were identified in Appendix A. The quality report was amended for the second time on August 16, 2023.

The Toxicology Section analyzes cases in batches, and each batch is assigned a unique identifier. The original number of batches related to the quality reports issued on January 14, 2023, and May 11, 2023, was 112. The 112 batches were based on the buffers identified during the initial investigation into the quality incident.

While researching the correct forensic case numbers to list in the amended report issue August 16, 2023, the Toxicology section discovered that there were additional buffers involves in the quality incident. The additional buffers are related to 248 additional batches.

The Quality Division and Toxicology Section decided to issue this memo to document the additional buffers (Table 1) and the additional batches (Table 2) not listed in Quality Report 2022-047. The decision was made because the original nonconformance did not impact technical results. For more details regarding the nonconformance, please see the August 16, 2023, amended Quality Report 2022-047 attached at the end of this memo. Also attached is the deviation memo regarding Quality Manual clause 7.10.1.e for Quality Incident Report 2022-047.

**Table 1 – Additional Buffers**

Drug Confirmatory Solutions		ELISA Screening Solutions	
<b>100 mM Phosphate Buffer pH 6.0</b>		<b>Phosphate Buffer Saline (PBS) pH 7.0</b>	
181026-PB6		050517-PBS7	190923-PBS7
181120-PB6		071817-PBS7	191223-PBS7
190403-PB6		111617-PBS7	200212-PBS7
190430-PB6		180824-PBS7	200512-PBS7
190715-PB6		180919-PBS7	200617-PBS7
210625-PB6B		181211-PBS7	200714-PBS7
211102-PB6B		190118-PBS7	210528-PBS7B
220107-PB6B		190514-PBS7	210813-PBS7B
220531-PB6B		190624-PBS7	
<b>0.5 M Phosphate Buffer pH 8.0</b>		<b>Phosphate Buffer Solution pH 7.038</b>	
190107-PB8		011217-B	
<b>100 mM Sodium Acetate Buffer pH 4.5</b>			
220202-Na4.5B			

**Table 2 – Additional Batches**

Batch	Batch	Batch
EIA_20200514B_AAJ	OPI1_20221010B_JR	PCP_20190506B_TS_updated
EIA_20200618B_AAJ	COC_20221019B_JR	PCP_20190612B_MH
EIA_20200714U_VC	COC_20220914B_CD	COC_20190722B_MH
EIA_20200715B_CLR	BSD_20221019_DM	BSD_20190627B_CLR
EIA_20200720B_CLR	BSD_20221005B_KMY	BSD_20190711B_CLR
EIA_20200723B_DM	BSD_20220922_AAJ	COC_20190702B_MH
EIA_20200806B_AAJ	BSD_20220913_ASG	OPI_20190619B_MH
EIA_20200810B_VC	BSD_20220602U_ASG	OPI_20190708B_MH
EIA_20200707U_VC	AMP_20220922B_CD	PCP_20190624B_MH
EIA_20200824U_CLR	EIA_20171219B_CLR	PCP_20190716B_MH
EIA_20200902B_AAJ	20170119U_ASG	EIA_20190702U_DM
EIA_20200925B_CLR	EIA_20170207U_AAJ_Tecan	EIA_20190716B_ASG
EIA_20201001U_AAJ	EIA_20170217U_ASG_Tecan	EIA_20190716U_DM
EIA_20201012B_VC	EIA_20170223U_ASG_Tecan	EIA_20190717B_AAJ
EIA_20201026B_VC	EIA_20171212U_AAJ	EIA_20190730B_DM
EIA_20200819B_DM	EIA_20171003B_CLR	EIA_20190731B_AAJ
EIA_20201029B_DM	EIA_20171011B_AAJ	EIA_20190801B_AAJ
EIA_20201105B_AAJ	EIA_20171023B_ASG	EIA_20190806B_VC
EIA_20201118U_CLR	EIA_20171030B_CLR	EIA_20190807U_AAJ

EIA_20211005B_EP	EIA_20171113U_CLR	EIA_20190812B_CLR
EIA_20210929B_FB	EIA_20171114B_ASG	EIA_20190816U_AAJ
EIA_20210927B_FB	EIA_20171115U_CLR	EIA_20190821B_ASG
EIA_20210921B_JP	EIA_20171129B_CLR	EIA_20190829B_DM
EIA_20210920U_EP	EIA_20171204U_ASG	EIA_20190711U_ASG
EIA_20210916B_FB	EIA_20171206B_CLR	EIA_20190904B_CLR
EIA_20210915B_KMY	EIA_20171207U_CLR	EIA_20190905B_VC
EIA_20210903B_CLR	PCP_20181127B_MH	EIA_20190919B_CLR
EIA_20210901B_FB	BSD_20181108B_TS	EIA_20190920U_AAJ
EIA_20210831B_VC	EIA_20180906B_AAJ	EIA_20190924B_DM
EIA_20210830B_KMY	EIA_20180913B_CLR	EIA_20190925B_VC
EIA_20210826B_CC	EIA_20180919B_AAJ	EIA_20190926B_DM
EIA_20210825U_FB_Updated	EIA_20180921B_CLR	COC_20190730B_MH
EIA_20210824B_FB	EIA_20180926B_AAJ	COC_20190813B_MH
EIA_20210820B_AAJ	EIA_20180927B_AAJ	COC_20190814B_MH
EIA_20210819B_FB	EIA_20180928U_ASG	EIA_20191002B_CLR_Updated
EIA_20210818B_FB	EIA_20181009U_ASG	EIA_20191003B_AAJ
EIA_20210817B_EP	EIA_20181015B_ASG	EIA_20191008B_CLR
PCP_20210831B_MH	EIA_20181016B_CLR	EIA_20191010B_AAJ
PCP_20210817B_MH	EIA_20181029B_ASG	EIA_20191014B_DM
OPI2_20210909B_CLR_Updated	EIA_20181030B_ASG	EIA_20191016B_ASG
OPI1_20210909B_CLR_Updated	EIA_20181031U_CLR	EIA_20200211B_AAJ
COC_20210902B_CLR_Updated	AMP_20190122B_MH	EIA_20200218B_ASG
COC_20210902B_CLR	AMP_20190221B_TS	EIA_20200224U_CLR
COC_20210823B_MH	BSD_20181205B_MH	EIA_20200303B_VC
BSD_20210902B_AAJ	BSD_20190110B_TS	EIA_20200311B_AAJ
BSD_20210816B_VC	OPI_20190107B_MH_updated	EIA_20200316B_CLR
BSD_20210812B_AAJ	OPI_20190115B_MH	EIA_20200318U_ASG
AMP_20210902B_SD	OPI_20190123B_TS	EIA_20200331B_VC
AMP_20210824B_SD_updated	EIA_20181212B_ASG	EIA_20200407B_CLR
EIA_20220209B_KMY	EIA_20181226B_ASG	EIA_20200408B_CLR
EIA_20220202B_JP	EIA_20190108B_ASG	EIA_20200416B_AAJ
EIA_20220201U_VC	EIA_20190122B_ASG	EIA_20200417B_AAJ
EIA_20220131U_EP	EIA_20190124B_AAJ	EIA_20200420U_CLR
EIA_20220125U_AAJ	EIA_20190128B_CLR	EIA_20200324U_CLR
EIA_20220118U_ASG_Updated	EIA_20190129B_ASG	EIA_20200421U_VC
EIA_20220111B_JP_Updated	EIA_20190205B_ASG	EIA_20200422U_VC
EIA_20220110B_CD	EIA_20190206B_CLR	EIA_20200424U_AAJ_Updated
EIA_20211221B_FB	EIA_20190208U_AAJ	EIA_20200427U_VC
EIA_20211216U_JP_updated	EIA_20190212B_ASG	EIA_20200428B_CLR_Updated
EIA_20211215B_FB	EIA_20190215U_AAJ	EIA_20200430U_AAJ
EIA_20211214B_EP	EIA_20190218B_CLR	EIA_20200505B_VC

PCP_20220107B_CD	EIA_20190221U_ASG	EIA_20200520B_CLR
PCP_20220105B_CD	EIA_20190226B_AAJ	COC_20220728B_CD
BSD_20220105_DM	EIA_20190228B_AAJ	EIA_20211018B_ASG
AMP_20220124B_MH	BNZ_20190502B_MH	EIA_20220114B_KMY
AMP_20220120B_MH	BNZ_20190124B_MH	AMP_20220413B_CD
AMP_20220105B_MH	BNZ_20190207B_TS	AMP_20220324B_EC
AMP_20211229B_MH	EIA_20190321U_AAJ	BNZ_20220407B_CD
PCP_20220331B_EC	EIA_20190404B_ASG	PCP_20220922B_EC
COC_20220404B_MH	EIA_20190408B_ASG	OPI2_20220929B_EC
COC_20220308B_CD	EIA_20190410U_ASG	BSD_20190517B_CLR
BSD_20220412_VC	EIA_20190425B_AAJ	COC_20190409B_TS
BSD_20220408B_DM	BSD_20190625B_CLR	COC_20190509B_TS_Updated
BSD_20220329B_VC	AMP_20190417B_TS	OPI_20190424B_TS
BSD_20220328B_ASG	AMP_20190531B_MH	PCP_20190425B_TS
BSD_20220323B_AAJ	AND_20190418B_CLR	BSD_20220316_ASG
BSD_20220317B_DM	BSD_20190416B_CLR	BSD_20190429B_CLR
EIA_20170517U_ASG and EIA_20170517U_ASG2	EIA_20170612U_CLR and EIA_20170612U_CLR2	EIA_20170705B_ASG and EIA_20170705B_ASG2
EIA_20170523B_ASG and EIA_20170523B_ASG2	EIA_20170613B_ASG and EIA_20170613B_ASG2	EIA_20170707U_CLR and EIA_20170707U_CLR2
EIA_20170525B_ASG and EIA_20170525B_ASG2	EIA_20170619B_CLR and EIA_20170619B_CLR2	BNZ_20190214B_TS_updated 2019-04-23
EIA_20170531U_ASG and EIA_20170531U_ASG2	EIA_20170622B_AAJ and EIA_20170622B_AAJ2	EIA_20190916B_ASG and EIA_20190917U_ASG
EIA_20170606B_AAJ and EIA_20170606B_AAJ2	EIA_20170627B_AAJ and EIA_20170627B_AAJ2	EIA_20171213B_ASG and EIA_20171214B_ASG
EIA_20170607B_ASG and EIA_20170607B_ASG2	EIA_20170628U_ASG and EIA_20170628U_ASG2	



**Quality Division Use Only**

Quality Tracking #:	2022-047 Amended	Classification:	Incident
Non-Conformance Level:	N/A	Section:	Toxicology
Date of Discovery:	07/26/2022	Date of Incident:	07/26/2022

This report was amended on 05/11/2023 to include additional cases under Appendix B.

This report was amended for the second time on 08/16/2023 to correct typographical errors in Appendix A. The FCN listed as '2021-20147' has been corrected to '2021-20148' and the FCN listed as '2021-29704' had been corrected to '2021-29705'.

This 08/16/2023 amended report will only be uploaded to the case records in JusticeTrax for FCN 2021-20148 and 2021-29705. All other cases listed in Appendices A and B will have the 05/11/2023 amended report uploaded to their respective JusticeTrax case records.

While researching the correct case numbers, HFSC identified additional 248 batches of cases involved in this nonconformance; however, because this nonconformance did not impact technical results, the additional batches identified will be documented in a memo. The memo will be available on HFSC's eDiscovery site.

<b>Forensic Case Number(s), if applicable:</b>	<b>Agency Case Number(s), if applicable:</b>
Refer to Appendices A and B for list of affected forensic case numbers.	Refer to Appendices A and B for list of affected agency case numbers.

<b>Description of Non-conformance:</b>
There were several instances where the performance check of the Toxicology section pH meter did not meet all of the Toxicology section's required acceptance criteria but were deemed as "passed" by different analysts.

<b>Additional Information/Follow-Up:</b>
The performance check for the pH meter is a twofold process that consists of a three-point slope pH check and that these pH readings are within an +0.022 range of the target pH depicted in the buffer solution bottles. The target pH is dependent on the room temperature; it is a pre-established value that is valid within a 10°C temperature range. On instances when the room temperature is between two 10°C temperature ranges, the analyst must average the two target pH values to determine the target pH to determine the acceptable +0.022 passing range. The pH meter is required to be performance checked prior to being used for the in-house preparation of buffers used in drug screening and confirmation analyses.



On July 26, 2022, a toxicology technician completing a pH meter performance check for training purposes noted that the pH reading was not within the acceptable range for the pH 4 buffer solution. This prompted a review of previously completed performance checks in 2022 where it was discovered that there were four instances where the pH 4 buffer level had failed but had been marked as "passed". Because of this, the section decided to complete a more comprehensive review to include performance checks completed from 2016, when the pH meter was put in service, to present. This comprehensive review also found other instances where the pH 4, 7 and/or 10 buffer level had failed but had been marked as "passed". From reviewing the performance check forms, analysts were not actively looking at the pH values to their acceptable  $\pm 0.022$  passing range but were more focused on deeming the check as passed based on the acceptance criteria from the three-point slope. All measured pH values of the buffer solutions agreed to the whole numbers (pH 4, 7, and 10) but the failed checks showed the decimal place outside of the acceptable  $\pm 0.022$  range (e.g., pH measured at 4.09 when the acceptable range is 3.978-4.022 for the pH 4 buffer solution).

During the routine toxicology analysis workflow, samples are first analyzed by ELISA drug screening. Screening tests are used for the preliminary screening of blood and urine samples, positive results proceed to the confirmatory testing part of the analysis workflow. A buffer is a solution that is used to maintain the pH constant in a solution to provide the adequate pH environment that is needed when working with biological materials such as blood.

Buffers used in preparation of calibrators and controls of ELISA drug screening analyses can be from different lots from the buffers used for casework samples. Therefore, an additional 3-day verification study was completed to 1) verify the new set of ELISA calibrators and controls made with freshly prepared buffers and 2) compare the ELISA calibrators and controls against the existing calibrators and controls made with affected buffer solutions. Both sets of ELISA calibrators and controls showed comparable and acceptable verification results. There were two active solutions; 100 mM phosphate buffer at pH 6 (lot #: 220531-PB6A) and phosphate buffer saline (PBS) at pH 7.0 (lot #: 220615-PBS7). The pH values of the two solutions were retested. The pH of 220531-PB6A was the same as the original measurement (pH 5.98) and the pH of 220615-PBS7 was slightly different from the original measurement (pH 6.82 vs 6.99). However, this was expected because sodium chloride is added to this solution after measuring the pH value (Analytical Manual v3.8, section 12.3.5). Sodium chloride changes pH of the end product. Within this timeframe, the following external proficiency tests were satisfactorily completed: 21-5671-U2588A, 21-5661-U2588A, 21-5662-U2588A, FTC-A-2022, and DFC-A-2022. In addition, there was a total of 75 blind quality control cases submitted within this timeframe and they all screened positive for the appropriate drug group. Buffers used in drug GC and LC analyses are added not only to the casework samples but to all the calibrators and controls which are of a known concentration. The concentrations of the calibrators and controls must meet the acceptance criteria of being  $\pm 20\%$  of the known target concentration to deem a batch satisfactory. In addition, the buffers, controls, and calibrators are verified prior to being used in casework.

Within this timeframe there was a total of 12 blind quality control cases that satisfactorily quantified and confirmed the appropriate analyte.

This incident is being tracked by the Quality Division because staff members were not following the performance review instructions as delineated in their SOP. Although the performance checks requirements were not fully met, because there are additional quality checks implemented in the analytical drug screening and confirmation



processes, and the verification study and retesting of pH values completed for the ELISA drug screening buffers, it was demonstrated that this incident did not have a technical impact on the results reported for the cases involved.

The buffers involved in this incident are summarized in the table below:

Drug confirmatory solutions	ELISA screening solutions
100 mM Phosphate buffer pH 6.0	Phosphate Buffer Saline (PBS), pH 7.0
210625-PB6A	
211102-PB6A	201119-PBS7
220107-PB6A	210104-PBS7
220317-PB6	210513-PBS7
220531-PB6A	210528-PBS7A
100 mM Sodium acetate buffer pH 4.5	210813-PBS7A
210909-Na4.5	220112-PBS7
220202-Na4.5A	220615-PBS7

**Summary of Root Cause Analysis:**

Note: Incidents are documented for tracking purposes and trend analysis. Root Cause Analysis is not required for incidents.

N/A

**Actions Taken:**

New buffer solutions for pH 4,7 and 10 were ordered after discovering this incident. On August 3, 2022, performance checks were performed using all new buffer solutions and these checks met all the acceptance criteria.

To clarify the acceptance criteria, the laboratory form for pH meter performance check (LAB-048) was revised on August 04, 2022. Acceptable ranges for pH 4, 7, and 10 buffer solutions are now listed in the footer of the form for the temperature used in the lab for the past 6 years (20°C) so these ranges are more easily referenced. The part on the pH meter performance check in Analytical Manual v3.8 (issued on 08/04/2022) was revised to use the target pH values closer to the measured temperature rather than taking the average to simplify the procedure.



**Houston Forensic Science Center**  
**Incident/Corrective Action Report**  
Quality Division

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**Section Manager:** Dayong Lee

**Date:** 08/16/23

**Division Director:** Amy Castillo

**Date:** 08/16/23

**Incidents or Corrective Actions that involve the Biology/DNA section are reviewed by the Technical Leader and CODIS Administrator.**

**Technical Leader:** N/A

**Date:** \_\_\_\_\_

**CODIS Administrator:** N/A

**Date:** \_\_\_\_\_

**Quality Director:** Jackeline Moral

**Date Closed:** 08/16/23



# Appendix A

Forensic Case Number	Agency Case Number
2010-06897	059136210
2013-27548	109748313
2019-13655	103138719
2020-06658	065209320
2020-07966	076792520
2020-09873	095495020
2020-10048	098396720
2020-10050	098347520
2020-10060	098002720
2020-10062	098387020
2020-10066	098026820
2020-10084	098339020
2020-10087	098357220
2020-10090	097948720
2020-10093	097916120
2020-10095	097970820
2020-10171	098468220
2020-10179	098560220
2020-10211	098917120
2020-10219	099349520
2020-10221	099321920
2020-10226	099295720
2020-10228	099325120
2020-10230	099296620
2020-10259	099398720
2020-10265	099409320
2020-10267	099418020
2020-10268	099378220
2020-10269	099691220
2020-10302	100263520
2020-10312	100320920
2020-10381	100844020
2020-10588	103133620
2020-10592	102778320
2020-10594	102978420
2020-10595	103042620
2020-10630	103511420
2020-10631	103562220

2020-10633	103644520
2020-10634	103348320
2020-10640	103292720
2020-10641	103574020
2020-10642	103423820
2020-10711	104478020
2020-10717	104475320
2020-10719	104016220
2020-10723	104553120
2020-10724	103856220
2020-10728	104954520
2020-10732	104915320
2020-10734	104640020
2020-10737	104906120
2020-10744	103840520
2020-10757	104790720
2020-10758	104471420
2020-10766	104242420
2020-10773	104076120
2020-10778	104985520
2020-10779	104293420
2020-10780	104332920
2020-10783	103850120
2020-10786	104485920
2020-10787	104823720
2020-10836	104499820
2020-10842	105467020
2020-10843	105416520
2020-10848	105054420
2020-10854	105249020
2020-10856	105302720
2020-10859	105023220
2020-10892	105480420
2020-10895	105120520
2020-10896	105876320
2020-10901	105184520
2020-10902	105736820
2020-10937	105826420
2020-10960	106300120

2020-10966	106266620
2020-10988	106795520
2020-10989	106943520
2020-10992	106978020
2020-10994	106404120
2020-11071	107220120
2020-11072	108301320
2020-11076	107854020
2020-11089	107821520
2020-11090	108187920
2020-11095	107446920
2020-11097	108209920
2020-11106	107808620
2020-11112	107938520
2020-11119	107298820
2020-11124	107877520
2020-11129	108279820
2020-11133	106972520
2020-11142	107471420
2020-11199	108417420
2020-11201	108534920
2020-11204	108787420
2020-11206	108391520
2020-11210	107702120
2020-11212	108623820
2020-11213	108402120
2020-11229	108516620
2020-11231	108540220
2020-11276	109619620
2020-11279	109398120
2020-11326	109963120
2020-11329	110241020
2020-11333	110364720
2020-11336	110324120
2020-11338	110300820
2020-11362	111168320
2020-11364	111355120
2020-11370	111635120
2020-11372	111719020

# Appendix A

2020-11378	111354620
2020-11382	111368020
2020-11387	111037820
2020-11389	111694920
2020-11394	111760320
2020-11396	110724520
2020-11397	111349120
2020-11398	111042920
2020-11401	111196120
2020-11419	111399220
2020-11684	114579920
2020-11707	113968520
2020-11732	114526120
2020-11803	115488820
2020-11873	115776120
2020-11875	115795920
2020-11932	116521920
2020-12086	117960020
2020-12089	118028020
2020-12111	116577920
2020-12191	117144520
2020-12249	118884520
2020-12254	118138520
2020-12255	119272320
2020-12361	121223220
2020-12427	121279920
2020-12491	119835420
2020-12492	119138320
2020-12498	120986320
2020-12501	118672420
2020-12503	120360020
2020-12508	121913320
2020-12510	122144520
2020-12512	122157820
2020-12517	120699020
2020-12519	121796720
2020-12526	120680720
2020-12531	120599820
2020-12534	120573120

2020-12566	121521320
2020-12567	121199720
2020-12569	119993320
2020-12570	121744120
2020-12572	121869720
2020-12644	122763220
2020-12647	123024220
2020-12651	123102120
2020-12665	122367920
2020-12676	123632020
2020-12680	123185120
2020-12682	123546620
2020-12688	123109820
2020-12691	123202020
2020-12693	123695020
2020-12696	122230920
2020-12710	123198120
2020-12728	124703020
2020-12736	123689620
2020-12739	124954320
2020-12761	124941220
2020-12762	124919920
2020-12771	124174620
2020-12867	124622220
2020-12871	124147920
2020-12896	125345320
2020-12908	124239120
2020-12973	125635020
2020-13002	126925720
2020-13021	125410120
2020-13024	125440520
2020-13051	126742120
2020-13057	126451520
2020-13063	128279820
2020-13067	126942320
2020-13087	127032420
2020-13091	127203220
2020-13093	128304220
2020-13096	127622520

2020-13098	127412320
2020-13102	126930920
2020-13107	127841020
2020-13206	126864620
2020-13214	128380420
2020-13217	128502620
2020-13221	127970320
2020-13229	127390820
2020-13234	128378920
2020-13240	128831120
2020-13243	128517320
2020-13246	127993420
2020-13250	128084820
2020-13271	128533420
2020-13340	129832120
2020-13356	129407520
2020-13367	129504020
2020-13369	127422620
2020-13370	129190420
2020-13374	129858420
2020-13375	129521020
2020-13377	129854220
2020-13387	129817920
2020-13393	129092920
2020-13395	130336820
2020-13397	128636720
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2020-13439	130798620
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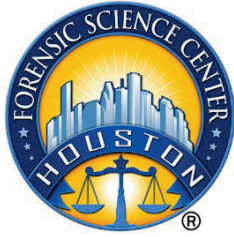
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## Appendix A

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## Appendix B

Forensic Case Number	Agency Case Number
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2022-07603	082260222
2022-07605	083341222
2022-07702	083914122



# Houston Forensic Science Center

500 Jefferson St., 13<sup>th</sup> Floor Houston, TX 77002

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To: Dayong Lee, Toxicology Manager

From: Jackie Moral, Quality Director

**Jackeline Moral** Digitally signed by Jackeline Moral  
Date: 2023.08.11 17:43:45 -05'00'

Cc: Peter Stout, CEO; Amy Castillo, CEO

Date: August 11, 2023

Re: Quality Manual Deviation Clause 7.10.1.e for Quality Incident 2022-047

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The HFSC Quality Director is authorizing a deviation from Quality Manual clause 7.10.1.e (issue date August 11, 2022) for Quality Incident Report 2022-047. The clause states that incident reports will be uploaded to case records in LIMS.

Incident report 2022-047 was originally issued on January 14, 2023, and listed 2128 involved cases (Appendix A). After the report was issued, it was discovered that there were an additional 29 involved cases. The report was amended on May 11, 2023, listing the additional 29 cases as Appendix B.

While uploading the amended report to cases in LIMS, two incorrect forensic case numbers were identified in Appendix A. While investigating the incorrect forensic case numbers, it was discovered that approximately 5000 additional cases were involved.

Given the resources that would be needed to upload the report to the additional cases, the Quality Division and Toxicology Section agreed that because the nonconformance did not impact the technical results, a memo documenting the additional batches involved in this nonconformance is sufficient. The memo will be uploaded to eDiscovery.