



Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

Immunoassay Batch Review Checklist

Batch Name: <i>ETA 20180927B-AAJ</i>		Analyst Review	Technical Review
Worklist	Batch name written and item(s) tested for each case listed	✓	✓
	Pipette(s) used listed	✓	✓
	Lot numbers for calibrators, controls, and reagents are listed	✓	✓
	Inventory number(s) listed	✓	✓
Sequence	Verify batch file name is consistent	✓	✓
	Reviewer verified, initialed, and dated sequence	✓	✓
	Verify appropriate calibrator and controls were analyzed, and appropriate controls were run at least after every 10 case samples	✓	✓
	Verify all cases were processed and have data	✓	✓
Magellan Data	Verify average absorbance of blank replicates is above 1.000	✓	✓
	Verify calibrators and controls are acceptable	✓	✓
	Verify case samples are bracketed by acceptable positive controls	✓	✓
	Verify correct method was run	✓	✓
Immunoassay Case Summary Report	Verify absorbance readings on Immunoassay Case Summary Report against Magellan data	✓	✓
	Verify results on Immunoassay Case Summary Report against Magellan data	✓	✓
	Verify analyst, matrix, instrument, and batch name(s)	✓	✓
	Verify forensic case number and item tested	✓	✓
Immunoassay Batch QC Data Worksheet	Verify batch and analyst names	✓	✓
	Verify preparation of calibrators, controls, and reagents	✓	✓
	Verify pipette(s) against those listed on the worklist	✓	✓
	Verify lot numbers and expiration dates of calibrators, controls, and reagents	✓	✓
	Verify kit lot numbers and expirations dates against Drug Standard Database	✓	✓
Verify all quality controls were added to QC Logs		✓	✓
All comments and/or strikethroughs, if any, initialed		✓	
All pages contain batch name and are initialed		✓	✓

Ray

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Notes from Technical Review EIA-20180927B-AAJ

lot number for positive ^{09/28/18} control transcribed incorrectly on worksheet. 09/28/18

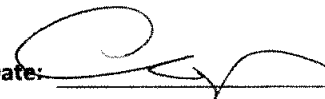
Analyst Review

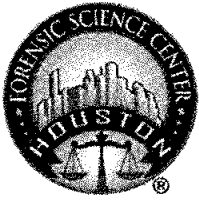
Technical Review

Signature/Date:

 9/27/2018

Signature/Date:

 09/28/18



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Immunoassay Batch QC Data

Batch: EIA-20180927B-AAJ Analyst: Ashley Ann Johnson
 Matrix: Blood Urine
 Instrument: Tecan Tecan-2
 Pipette(s): 8932 235D
 Phosphate Buffer Saline Lot Number: 180824-PBS7 Expiration Date: 2124119

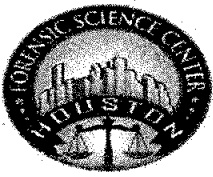
Controls:	Lot Number	Expiration
Blank	<u>E32118</u>	<u>11/18</u>
Negative	<u>180830B-MXN</u>	<u>2124119</u>
Calibrator	<u>041618B-MXC</u>	<u>10/9/18</u>
Positive	<u>180830B-MXP</u>	<u>2124119</u>

Oxycodone:	Lot Number	Expiration
Negative	<u>n/a</u>	<u>n/a</u>
Calibrator	<u>↓</u>	<u>↓</u>
Positive	<u>↓</u>	<u>↓</u>

	Kit Lot Number	Expiration
Amphetamine	<u>n/a</u>	<u>n/a</u>
Barbiturates	<u>↓</u>	<u>↓</u>
Benzodiazepines	<u>EK-16934</u>	<u>5/19</u>
Benzoylcegonine	<u>n/a</u>	<u>n/a</u>
Cannabinoids	<u>↓</u>	<u>↓</u>
Carisoprodol	<u>↓</u>	<u>↓</u>

	Kit Lot Number	Expiration
Methadone	<u>n/a</u>	<u>n/a</u>
Methamphetamine	<u>↓</u>	<u>↓</u>
Opiates	<u>↓</u>	<u>↓</u>
Phencyclidine	<u>↓</u>	<u>↓</u>
Zolpidem	<u>↓</u>	<u>↓</u>
Oxycodone	<u>↓</u>	<u>↓</u>

Comments: The incubation steps were manually timed by the analyst. 09/12/18
 Lot 180929B-MXC was not verified due to the incorrect calibrator being analyzed. This control will be reverified for Benzodiazepines. 09/12/18



EIA-20180927B-AAJ

9/27/2018

Priority	Lab Case# / Item#	Description
2018-11791	102282418	Found Property-All Other
	Normal	~12 mL - AAJ 8/30/18
	3.1 one arev top tube	
2018-11796	102842418	Driving While Intoxicated (Liquor)(DV)
	Normal	~10 mL - AAJ 8/30/18
	1.1 one arev top tube	
	Total Tasks	2



i101 0034G
12.561

Reanalysis for Benzodiazepines. aaj 9/27/18

Pipettes 8932, 235D

Buffer 180829-PBS 2/24/18

Controls

Blank E32118 uiso

Mixed

Neg 180830B-MXN 2/24/19

Cal 041618B-MXC 10/9/18

Pos 180830B-MXVP 2/24/19
aaj 9/27/18

Inw #

BZ 9 5/19

verifying lot 180924B-MXC.
aaj 9/27/18

manually timed incubation steps. aaj 9/27/18

Thursday, September 27, 2018 9:17:14 AM

Houston

Forensic Science Center Page 1 of 1

EIA_20180927B_AAJ PBS: 180824-PBS7 Pipettes: 235D, 8932

	ID	214
1	Blank-1	X
2	Blank-2	X
3	Negative-1	X
4	Negative-2	X
5	Calibrator-1	X
6	Calibrator-2	X
7	Positive-1	X
8	Positive-2	X
9	01_2018-11791_3/1	X
10	02_2018-11796_1/1	X
11	03_180924B-MXC_1	X
12	04_180924B-MXC_2	X
13	05_Water_1	X
14	06_Water_2	X
15	07_Water_3	X
16	08_Water_4	X
17	09_Water_5	X
18	10_Water_6	X
19	Positive-3	X

*Sequence verified
eve 09/27/18*



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Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **01_2018-11791_3/1**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **0.133**
RESULT: **POS**

This sample was previously analyzed in batch EIA_20180926B_AAJ. - AAJ 9/27/18



Reviewed by:  09/28/18

Report Date: 9/27/2018 11:46:28 AM

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **02_2018-11796_1/1**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **0.21**
RESULT: **POS**

This sample was previously analyzed in batch EIA_20180926B_AAJ. - AAJ 9/27/18

Reviewed by:

Report Date: 9/27/2018 11:46:28 AM

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
 Batch Name: **EIA_20180927B_AAJ**
 Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **03_180924B-MXC_1**

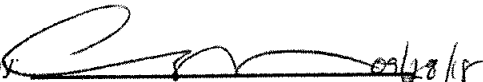
Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

The incorrect calibrator was analyzed instead of 180924B-MXC, therefore this lot was not verified in this batch for Benzodiazepines. - AAJ 9/27/18

CASE DATA:

Raw Data: **3.474**
 RESULT: **neg**

AAJ
 Reviewed by:  09/28/18

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **04_180924B-MXC_2**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

The incorrect calibrator was analyzed instead of 180924B-MXC, therefore this lot was not verified in this batch for Benzodiazepines. - AAJ 9/27/18

CASE DATA:

Raw Data:	3.412
RESULT:	neg



Reviewed by:  09/28/18

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Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **05_Water_1**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data:	3.262
RESULT:	neg



Reviewed by:  09/28/18

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Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **06_Water_2**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Callibrator-1	20 ng/mL	1.894	1.917
Callibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **3.265**

RESULT: **neg**

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Reviewed by: 

Report Date: 9/27/2018 11:46:28 AM

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Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**
Batch Name: **EIA_20180927B_AAJ**
Batch Name:

Instrument: **TECAN-2**

Forensic Case Number: **07_Water_3**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **3.302**

RESULT: **neg**



Reviewed by: 

Report Date: 9/27/2018 11:46:28 AM

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**

Instrument: **TECAN-2**

Forensic Case Number: **08_Water_4**

Batch Name: **EIA_20180927B_AAJ**

Batch Name:

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **3.144**

RESULT: **neg**



Reviewed by: 

Report Date: 9/27/2018 11:46:28 AM

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**

Instrument: **TECAN-2**

Forensic Case Number: **09_Water_5**

Batch Name: **EIA_20180927B_AAJ**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **3.166**

RESULT: **neg**



Reviewed by: 

01/28/18

Report Date: 9/27/2018 11:46:28 AM

Houston Forensic Science Center - Toxicology

Immunoassay Case Summary Report

Analyst Name: **Ashley Ann Johnson**

Instrument: **TECAN-2**

Forensic Case Number: **10_Water_6**

Batch Name: **EIA_20180927B_AAJ**

Matrix: **Blood**

CONTROL ID:	Benzodiazepines		
	conc	raw data	raw data mean
Blank-1	0 ng/mL	3.206	3.259
Blank-2		3.312	
Negative-1	10 ng/mL	2.675	2.643
Negative-2		2.611	
Calibrator-1	20 ng/mL	1.894	1.917
Calibrator-2		1.941	
Positive-1	40 ng/mL	1.516	1.541
Positive-2		1.567	
Positive-3		1.658	1.658

CASE DATA:

Raw Data: **3.323**

RESULT: **neg**



Reviewed by: 

Report Date: 9/27/2018 11:46:28 AM

** Incorrect calibrator was analyzed, not instead of 180924B-MXC. ^{09/27/18} 09/27/18*

QC Validation criteria

Exp. Group Num 1
 QC Validation criteria : Difference data
 NCI>LPC1 --> TRUE
 LPC1>PC1 --> TRUE
 PC1>HPC1 --> TRUE

1 Strip method names

2 Sample ID 1

3 Difference data

4 Difference data - Mean

5 Difference data - Variation coefficient

6 b/b0

7 b/b0 - Mean

8 Cutoff results

	1	2	3	4 ✓	5	6	7 ✓	8
B2 A1	214	Blank-1	3.206	3.259 ✓	2.2999	98.374	100	
B1	214	Blank-2	3.312			101.63		
C1	214	Negative-1	2.675	2.643	1.7123	82.08	81.098	
D1	214	Negative-2	2.611			80.117		
E1	214	Calibrator-1	1.894	1.9175	1.7332	58.116	58.837	
F1	214	Calibrator-2	1.941			59.558		
G1	214	Positive-1	1.516	1.5415	2.3394	46.517	47.3	
H1	214	Positive-2	1.567			48.082		
A2	214	01_2018-11791_3/1	0.133	0.133		4.081	4.081	POS
B2	214	02_2018-11796_1/1	0.21	0.21		6.4437	6.4437	POS
C2	214	* 03_180924B-MXC_1	3.474	3.474		106.6	106.6	neg
D2	214	* 04_180924B-MXC_2	3.412	3.412		104.69	104.69	neg
E2	214	05_Water_1	3.262	3.262		100.09	100.09	neg
F2	214	06_Water_2	3.265	3.265		100.18	100.18	neg
G2	214	07_Water_3	3.302	3.302		101.32	101.32	neg
H2	214	08_Water_4	3.144	3.144		96.471	96.471	neg
A3	214	09_Water_5	3.166	3.166		97.146	97.146	neg
B3	214	10_Water_6	3.323	3.323		101.96	101.96	neg
C3	214	Positive-3	1.658	1.658		50.875	50.875	POS ✓

EIA_20180927B_AAJ