



Ft. Collins, Colorado

LIMS Version: 6.912

Page 1 of 1

Thursday, October 03, 2019

Karen Waters-Husted  
CH2M HILL Plateau Remediation Company  
825 Jadwin Avenue  
Richland, WA 99352

Re: ALS Workorder: 1909122  
Project Name: Performance Assessment, Septem  
Project Number: A19-009

Dear Ms. Waters-Husted:

One water sample was received from CH2M HILL Plateau Remediation Company, on 9/7/2019. The sample was scheduled for the following analysis:

Technetium-99

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the method employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental  
Katie M. O'Brien  
Project Manager

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

# ALS -- Fort Collins

## Sample Number(s) Cross-Reference Table

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**OrderNum:** 1909122

**Client Name:** CH2M HILL Plateau Remediation Company

**Client Project Name:** Performance Assessment, Septem

**Client Project Number:** A19-009

**Client PO Number:** BOA 54854

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3R4B2	1909122-1		WATER	06-Sep-19	10:10





ALS Environmental - Fort Collins  
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1909122

Project Manager: KMO

Initials: Em

Date: 09-07-19

1. Are airbills / shipping documents present and/or removable?		DROP OFF:	<input checked="" type="radio"/> YES	<input type="radio"/> NO			
2. Are custody seals on shipping containers intact?		NONE	<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
3. Are custody seals on sample containers intact?		NONE	<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
4. Is there a COC (chain-of-custody) present?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
6. Are short-hold samples present?			<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO			
7. Are all samples within holding times for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
8. Were all sample containers received intact? (not broken or leaking)			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
9. Is there sufficient sample for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
10. Are all samples in the proper containers for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)		N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
12. Are all aqueous non-preserved samples pH 4-9?		<input checked="" type="radio"/> N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)		<input checked="" type="radio"/> N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO			
14. Were the samples shipped on ice?			<input checked="" type="radio"/> YES	<input type="radio"/> NO			
15. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*:	#1	<input checked="" type="radio"/> #3	#4	RAD ONLY	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Cooler #: <u>11545</u>							
Temperature (°C): <u>2.5</u>							
No. of custody seals on cooler: <u>2</u>							
External µR/hr reading: <u>11</u>							
Background µR/hr reading: <u>13</u>							
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)							

\* Please provide details here for NO responses to gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

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\_\_\_\_\_

All client bottle ID's vs ALS lab ID's double-checked by: Em

If applicable, was the client contacted? YES / NO / NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: [Signature] 9/9/19

1909122

ORIGIN ID#SCA (509) 531-0450  
TROY BACON  
CH-2M  
6267 LATAM ST.  
RICHLAND, WA 99352  
UNITED STATES US

SHIP DATE: 08SEP19  
ACT WGT: 03.00 LB  
CAD: 10/060651/MET/4160  
BILL THIRD PARTY

11545

TO JULIE ELLINGSON  
ALS GLOBAL-FORT COLLINS  
225 COMMERCE DR

11-2

FORT COLLINS CO 80524  
(970) 460-1511 REF: P7R#11545  
N.V. DEPT:  
P.O.

2.5

567J19D04A05A2

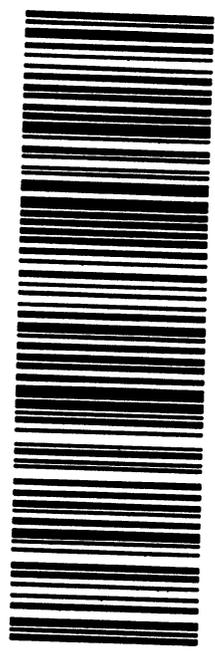


TRK# 7761 7602 1466  
0201

SATURDAY 12:00P  
PRIORITY OVERNIGHT

X0 FTCA

DSR 80524  
co-US DEN



After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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# Technetium-99

## Case Narrative

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### **CH2M HILL Plateau Remediation Company**

Performance Assessment, Septem – A19-009

Work Order Number: 1909122

1. The sample was prepared according to the current revision of SOP 755, with procedure modifications outlined in QASS 378635 and 378636.
2. The sample was analyzed for the presence of <sup>99</sup>Tc according to the current revision of SOP 704. The analysis was completed on 09/29/2019.
3. The analysis results for the sample are reported in units of pCi/L. The sample was not filtered prior to analysis.
4. In accordance with project specific instructions, the evaluation threshold for Relative Percent Difference (RPD) has been set at 20%. RPD is defined as:

$$RPD = \frac{|S - D|}{(S + D)/2} * 100$$

Where: S = sample activity result and D = duplicate activity result. RPD is not evaluated for sample/duplicate pairs where the reported activity is less than 5 times the sample specific MDC, as indicated with an "NC" on the Duplicate Sample Results (RPD) page.

5. No anomalous situations were encountered during the preparation or analysis of this sample. All quality control criteria were met.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Pik Yee Yuen  
Pik Yee Yuen  
Radiochemistry Primary Data Reviewer

10/1/19  
Date

Kath M. W.  
Radiochemistry Final Data Reviewer

10/3/19  
Date

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Method Blank Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1909122

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: Performance Assessment, Septem A19-009

Lab ID: TC190923-1MB	Sample Matrix: WATER	Prep Batch: TC190923-1	Final Aliquot: 250 ml
	Prep SOP: PAI 755 Rev 12	QCBatchID: TC190923-1-1	Result Units: pCi/l
	Date Collected: 23-Sep-19	Run ID: TC190923-1A	File Name: Z20190928_0838
	Date Prepared: 23-Sep-19	Count Time: 30 minutes	
	Date Analyzed: 29-Sep-19		

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
14133-76-7	Tc-99	5.51E-02 +/- 1.62E+00	2.88E+00	2.00E+01	NA	U

### Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Tc-99m	1.000E+04	9.02E+03	Pci	89.8	40 - 110 %	

### Comments:

#### Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - Requested MDC not met.

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

DL - Decision Level

#### Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Sample specific Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: TC1909122-1

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Laboratory Control Sample(s)

**Lab Name:** ALS -- Fort Collins  
**Work Order Number:** 1909122  
**Client Name:** CH2M HILL Plateau Remediation Company  
**ClientProject ID:** Performance Assessment, Septem A19-009

<b>Lab ID:</b> TC190923-1LCS	<b>Sample Matrix:</b> WATER	<b>Prep Batch:</b> TC190923-1	<b>Final Aliquot:</b> 250 ml
	<b>Prep SOP:</b> PAI 755 Rev 12	<b>QCBatchID:</b> TC190923-1-1	<b>Result Units:</b> pCi/l
	<b>Date Collected:</b> 23-Sep-19	<b>Run ID:</b> TC190923-1A	<b>File Name:</b> Z20190928_0838
	<b>Date Prepared:</b> 23-Sep-19	<b>Count Time:</b> 30 minutes	
	<b>Date Analyzed:</b> 29-Sep-19		

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
14133-76-7	Tc-99	9.13E+02 +/- 1.46E+02	2.78E+00	9.110E+02	100	75 - 125	

### Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Tc-99m	1.000E+04	9.48E+03	Pci	94.4	40 - 110 %	

### Comments:

#### Qualifiers/Flags:

U - Result is less than the sample specific MDC.  
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.  
 Y2 - Chemical Yield outside default limits.  
 L - LCS Recovery below lower control limit.  
 H - LCS Recovery above upper control limit.  
 P - LCS Recovery within control limits.  
 M - The requested MDC was not met.  
 M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

#### Abbreviations:

TPU - Total Propagated Uncertainty  
 MDC - Minimum Detectable Concentration

**Data Package ID:** TC1909122-1

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Duplicate Sample Results (DER)

**Lab Name:** ALS -- Fort Collins  
**Work Order Number:** 1909122  
**Client Name:** CH2M HILL Plateau Remediation Company  
**ClientProject ID:** Performance Assessment, Septem A19-009

<b>Field ID:</b>	B3R4B2
<b>Lab ID:</b>	1909122-1DUP

**Sample Matrix:** WATER  
**Prep SOP:** PAI 755 Rev 12  
**Date Collected:** 06-Sep-19  
**Date Prepared:** 23-Sep-19  
**Date Analyzed:** 28-Sep-19  
**Prep Batch:** TC190923-1  
**QCBatchID:** TC190923-1-1  
**Run ID:** TC190923-1A  
**Count Time:** 30 minutes  
**Report Basis:** Unfiltered  
**Final Aliquot:** 100 ml  
**Prep Basis:** Unfiltered  
**Moisture(%):** NA  
**Result Units:** pCi/l  
**File Name:** Z20190928\_0838

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14133-76-7	Tc-99	-1.58E+00 +/-	3.73E+00	6.94E+00	U	-2.67E+00 +/-	3.45E+00	6.62E+00	U	0.429	3

### Comments:

**Duplicate Qualifiers/Flags:**

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- D - DER is greater than Control Limit of 3
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

**Data Package ID:** TC1909122-1

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Duplicate Sample Results (RPD)

**Lab Name:** ALS -- Fort Collins  
**Work Order Number:** 1909122  
**Client Name:** CH2M HILL Plateau Remediation Company  
**ClientProject ID:** Performance Assessment, Septem A19-009

<b>Field ID:</b>	B3R4B2
<b>Lab ID:</b>	1909122-1DUP

**Sample Matrix:** WATER  
**Prep SOP:** PAI 755 Rev 12  
**Date Collected:** 06-Sep-19  
**Date Prepared:** 23-Sep-19  
**Date Analyzed:** 28-Sep-19  
**Prep Batch:** TC190923-1  
**QCBatchID:** TC190923-1-1  
**Run ID:** TC190923-1A  
**Count Time:** 30 minutes  
**Report Basis:** Unfiltered  
**Final Aliquot:** 100 ml  
**Prep Basis:** Unfiltered  
**Moisture(%):** NA  
**Result Units:** pCi/l  
**File Name:** Z20190928\_0838

CASNO	Analyte	Sample				Duplicate				RPD	RPD Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
14133-76-7	Tc-99	-1.58E+00	+/- 3.73E+00	6.94E+00	U	-2.67E+00	+/- 3.45E+00	6.62E+00	U	NC	20

### Comments:

**Qualifiers/Flags:**

- + - Duplicate RPD not within limits.
- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- BDL - Below Detection Limit
- NR - Not Reported

**Data Package ID:** TC1909122-1

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Sample Results

**Lab Name:** ALS -- Fort Collins  
**Work Order Number:** 1909122  
**Client Name:** CH2M HILL Plateau Remediation Company  
**ClientProject ID:** Performance Assessment, Septem A19-009

<b>Field ID:</b>	B3R4B2
<b>Lab ID:</b>	1909122-1

**Sample Matrix:** WATER  
**Prep SOP:** PAI 755 Rev 12  
**Date Collected:** 06-Sep-19  
**Date Prepared:** 23-Sep-19  
**Date Analyzed:** 28-Sep-19

**Prep Batch:** TC190923-1  
**QCBatchID:** TC190923-1-1  
**Run ID:** TC190923-1A  
**Count Time:** 30 minutes  
**Report Basis:** Unfiltered

**Final Aliquot:** 100 ml  
**Prep Basis:** Unfiltered  
**Moisture(%):** NA  
**Result Units:** pCi/l  
**File Name:** Z20190928\_0838

**Analysis ReqCode:** TC99\_SEP\_LSC

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
14133-76-7	Tc-99	-1.58E+00 +/- 3.73E+00	6.94E+00	2E+01	NA	U

### Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Tc-99m	1.000E+04	9.09E+03	Pci	90.5	40 - 110 %	

### Comments:

**Qualifiers/Flags:**

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- MDC - Sample specific Minimum Detectable Concentration
- BDL - Below Detection Limit
- DL - Decision Level

**Data Package ID:** TC1909122-1

# Technetium-99 by Liquid Scintillation

PAI 704\_Tc99 Rev 12

## Sample Duplicate Results

**Lab Name:** ALS -- Fort Collins  
**Work Order Number:** 1909122  
**Client Name:** CH2M HILL Plateau Remediation Company  
**Client Project ID:** Performance Assessment, Septem A19-009

<b>Field ID:</b>	B3R4B2
<b>Lab ID:</b>	1909122-1DUP

**Sample Matrix:** WATER  
**Prep SOP:** PAI 755 Rev 12  
**Date Collected:** 06-Sep-19  
**Date Prepared:** 23-Sep-19  
**Date Analyzed:** 28-Sep-19

**Prep Batch:** TC190923-1  
**QCBatchID:** TC190923-1-1  
**Run ID:** TC190923-1A  
**Count Time:** 30 minutes  
**Report Basis:** Unfiltered

**Final Aliquot:** 100 ml  
**Prep Basis:** Unfiltered  
**Moisture(%):** NA  
**Result Units:** pCi/l  
**File Name:** Z20190928\_0838

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
14133-76-7	Tc-99	-2.67E+00 +/- 3.45E+00	6.62E+00	2E+01	NA	U

### Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
Tc-99m	1.000E+04	9.73E+03	Pci	96.9	40 - 110 %	

### Comments:

**Qualifiers/Flags:**

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
  
- D - DER is greater than Control Limit of 3

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- MDC - Sample specific Minimum Detectable Concentration
- BDL - Below Detection Limit
- DL - Decision Level

**Data Package ID:** TC1909122-1

**Date Printed:**

Tuesday, October 01, 2019

ALS -- Fort Collins

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# Prep Batch ID: TC190923-1

Start Date: 09/23/19	End Date: 09/23/19	Concentration Method: NONE	Batch Created By: jcp
Start Time: 9:30	End Time: 9:30	Extract Method: PAI 75512	Date Created: 09/23/19
Prep Analyst: John C. Petrovic		Initial Volume Units: ml	Time Created: 9:31
<b>Comments:</b>		Final Volume Units: ml	Validated By: jcp
			Date Validated: 09/24/19
			Time Validated: 9:59

QC Batch ID: TC190923-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
TC190923-1	MB	XXXXXX	WATER	XXXXXX	250	250	NONE	1	1909122
TC190923-1CB1	MB	XXXXXX	WATER	XXXXXX	250	250	NONE	1	1909122
TC190923-1CB2	MB	XXXXXX	WATER	XXXXXX	250	250	NONE	1	1909122
TC190923-1CB3	MB	XXXXXX	WATER	XXXXXX	250	250	NONE	1	1909122
TC190923-1	LCS	XXXXXX	WATER	XXXXXX	250	250	NONE	1	1909122
1909122-1	DUP	B3R4B2	WATER	9/6/2019	100	100	NONE	1	1909122
1909122-1	SMP	B3R4B2	WATER	9/6/2019	100	100	NONE	1	1909122

**QC Types**

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicat	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike

ALS Laboratory Group - Fort Collins

QUALITY ASSURANCE SUMMARY SHEET

PAR W.O. # / BATCH General  
 TEST Tc99  
 METHOD Prep  
 SOP/REV (PREP) 755  
 SOP/REV (ANAL) \_\_\_\_\_

Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQO's or sample characteristics.

CS 8/12/09

Tc99<sup>m</sup> 711.2613.17 was used as a tracer for this batch. It has a half-life of 6 hours and therefore must be delivered the day of prep and diluted to a working level solution. The procedure noted below is standard for all Tc99<sup>m</sup> dilutions.

1. Open the Pb shielded container and carefully remove the vial containing the Tc99<sup>m</sup> primary standard.
2. Withdraw a 1 mL aliquot of the Tc99<sup>m</sup> primary standard from the vial using a 10 mL syringe fitted with a hypodermic needle. Dispense the aliquot into a disposable beaker that contains ~100 mL of DI water. Cap and mix well. This intermediate solution is a 1/100x dilution of the primary standard.
3. Using a 10 mL syringe, transfer 10 mL of the intermediate solution prepared in step 2 into a disposable beaker that contains ~70 mL of DI water. Cap and mix well. This working standard solution is a 1/800x dilution of the primary standard.

CS 8/12/09

CS 8/12/09

Attach vendor l:

**Rx# 813865**  
 Date Ordered: 23Sep2019  
 Date/Time Prepared: 24Sep2019 02:00 MT  
**ALS LABORATORY GROUP**  
 225 COMMERCE DR  
 FORT COLLINS CO 80524-2762  
 1 0430 Fort Collins

**CardinalHealth**  
 CARDINAL HEALTH 414, LLC  
 DENVER  
 10400 48TH AVE, STE B  
 DENVER CO 80238  
 303.373.0679

**Safetrac**™  
 CH102884

Patient: **SOURCE, Tc99m**  
 Product: Tc-99m **Sodium Pertechnetate Unit Dose mCi (H<sub>37</sub>)**  
 Disp Amt: **0.54 mCi**  
 Calibration: **24Sep2019 08:00 MT**

Source - Not for Human Use For Calibration Use Only  
 Indication: **Point Source mCi**  
 Dispense Date: **24Sep2019** Lot#: **E19267-0031** Price(est): **N/A**  
 Use By: **25Sep2019 02:00 MT** Physician: **Charles Orchard, RSO** NPT:  
 Notes: **NDC:** **RPh: N.Pham**

Caution: Federal law prohibits dispensing without a prescription - R, only. All Tc-99m drugs are below 0.15 uCi of Mo-99/mCi of Tc-99m at BUD

TECHNICIAN/ANALYST Crystal Sheffer

DATE 8/12/09

DEPARTMENT MANAGER [Signature]

DATE 8/12/09

378636

ALS Laboratory Group - Fort Collins

QUALITY ASSURANCE SUMMARY SHEET

PAR W.O. # / BATCH Generic  
 TEST Tc99  
 METHOD Prep  
 SOP/REV (PREP) 755  
 SOP/REV (ANAL) \_\_\_\_\_

Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQO's or sample characteristics.

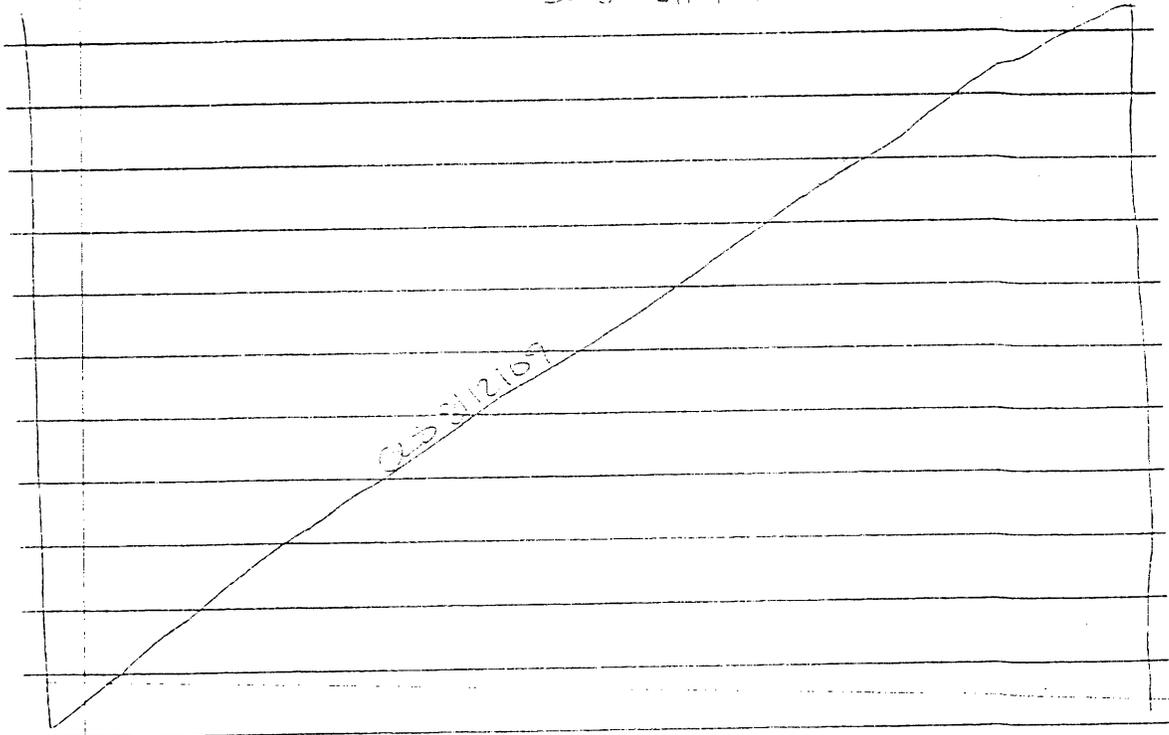
CUS 8/12/09

CUS 8/12/09

Due to possible matrix interference, a ferric hydroxide precipitation was performed on all samples per SOP 755, section 8.2.10

CUS 8/12/09

CUS 8/12/09



TECHNICIAN/ANALYST Cynthia Shereff

DATE 8/12/09

DEPARTMENT MANAGER [Signature]

DATE 8/12/09