



Public Health Service
National Institutes of Health

June 3, 2022

Director, Office of Nuclear Material Safety and Safeguards
ATTN: Document Control Desk/GLTS
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Sir or Madam,

This is to notify you as per requirements of 10 CFR 31.5 (c) (8) (ii) that on June 3, 2022, the NIH was notified that the generally-licensed source listed below was transferred following licensee:

Eckert and Ziegler
1380 Seaboard Industrial Blvd
Atlanta, GA 30318
State of GA License # GA742-1

Please contact me at (301)594-1303 if you have any questions.

Catherine Ribaud
Radiation Safety Officer, NIH

Device Detail:
Beckman LS6500 Liquid Scintillation Counter (S/N 7070475; ID Number: 01551408).

NMSS10

6/1 SAMPLE ANALYSIS REQUEST FORM

Date Submitted: <u>5/31/22</u>		Time Submitted: <u>1:00 PM</u>		Analysis No.: <u>22-0708</u>								
Customer Name: <u>Mattern / Koenig (12355)</u>			Organization: <u>RSOB</u>									
Sample/Survey Location (Bldg/Rm): <u>Bldg 6B 4B-416</u>												
Survey Area Type (Circle One): Restricted <u>Unrestricted</u> Both N/A												
Applicable Limits:	2200 dpm/100cm ²	220 dpm/100cm ²	22 dpm/100cm ²	<u>1000 dpm/100cm²</u>	240 dpm/100cm ² < 185 Bq							
	2000 dpm/100cm ²	200 dpm/100cm ²	20 dpm/100cm ²	Other:								
No. of Samples: <u>7</u>	No. of Blanks: <u>1</u>	Retain Samples? Yes <u>No</u>		Retain Smear Packet? Yes <u>No</u> N/A								
Sample Description: (Check All That Apply)	Smear	Swab	Liquid	Carboy	Tank	Mixed	X-check	Sealed Source				
	<u>7</u>											
	Air	Urine	Standards	Bkgd			Other: Please list in the comment box below.					
Comments: <u>LSC clearance</u> <u>5.) TOP LSC</u> <u>1.) RT side</u> <u>3.) Knont</u> <u>6.) Inner Left</u> <u>2.) LT. side</u> <u>4.) TOP L10</u> <u>7.) Inner RT</u>												
Evaluate For Indicated Radionuclides: (CIRCLE All That Apply)	<u>³H</u>	¹⁴ C	²² Na	<u>³⁵S</u>	<u>³²P</u>	<u>³³P</u>	⁴⁵ Ca	⁵¹ Cr	⁵⁵ Fe	⁵⁷ Co	⁶⁰ Co	⁶³ Ni
	⁷⁵ Se	⁸⁶ Rb	^{99m} Tc	¹¹¹ In	¹²³ I	¹²⁵ I	¹³¹ I	¹³³ Ba	¹³⁷ Cs	¹⁷⁷ Lu	¹⁹⁵ Au	²¹¹ At
	²¹² Bi	²³⁸ U	²⁴¹ Am	<u>α</u>	<u>β</u>	<u>γ</u>	PET	Cyclotron		Activation		
	¹²⁹ I	³⁶ Cl	Multi-Gamma	Other:								
Comments: <u>LSC surplus</u>												

EXPEDITED COUNT REQUEST
(Please Notify Lab Personnel Immediately When Requesting Expedited Processing)
Justification:
Date/Time Needed (Be specific):

THIS SECTION FOR MCAB USE ONLY											
Instrument Data:	Counter:	Hidex						GSS			
	Serial #:	A 117222	B 2120212	C 2120254	D 2180115	E 2180116	F 2190058	1 - 13164	2 - 8722		
(Check All That Apply)											
Analysis Data:	Started						Completed				
	Date:	<u>6-2-22</u>	Time:	<u>0517</u>	Date:					Time:	
Customer Notification:	Mode		Date		Time		Analyst Initials				
	Verbal										
	E-mail										
Hard Copy											
Comments: <u>6/2/22</u>											

Verification: Signature in this box constitutes a verification of this form and all supporting and attached documentation at the time of signature by this Division of Radiation Safety.	<div style="font-size: 2em; font-weight: bold;">Leland D Davis - S</div> Digitally signed by Leland D. Davis - S Date: 2022.06.02 15:34:07 -04'00'
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Analysis Report Form

AN22-0788 Equipment Clearance

LSC Count

All <MDA/MDCR

All <1000dpm/100cm² βy

Analysis Complete

JL Cross

6/2/2022

NIH/DRS Analytical Lab

Measurement file : AN22-0788 RSOB.dat **Measurement date : 6/2/2022**
Template file : Smear 2 minute.par **Measurement time : 8:17:58 AM**
Valid Assay

----- General Data -----

Measurement Type: EndPoint, Time: 6/2/2022 / 8:17:58 AM, State: Valid Measurement
 14 labels included, label No.1 selected
Template Template loaded during measurement time : s:\mcbal\...17 ml\smears\smear 2 minute.par; Modified template file
Files Data file : AN22-0788 RSOB.dat - 6/2/2022 / 08:44:00 - Operator was Unknown User - Created with Version 5.58
 Template file : Smear 2 minute.par - 2/18/2022 / 10:13:26 - Created by Unknown User - Created with Version 5.58
Reader Hidex 300 SL, Driver Version: 5.12, Device Serial: 2120254, Firmware: 1.44
 Installed features: LSC, External Standard,
 Activity Type: Standard
 Counting Time: 120 s, Maximum Counts: 3999999, Ionized Delay: 10 s, Coincidence Time: 35 ns,
 Delay Before Measurement: No
 Tray Size: 12x8, Well Repeats: 1, Range Repeats: 1
 External Standard Used: No
 Screen CPM: None
 ROI Number: 1
Calculation - ROI1 Free Channel Limits 5 - 1020, Type Beta
Program Calculation Status : Valid Assay, Calculation Time : 6/2/2022 / 08:44:00
 MikroWin, Version 5.58; License No. : 017578
 Assembly Code A : 001F 0200 0000 0000 0000 FFFF
 Assembly Code B : 0057 FF3F FEFF FFCF FFC0 FFFF
System Operating System Name : Windows 10, System User : drsannlab
Printer Printer Name : ORS086_21_143

----- Threshold Statistics -----

Group	Assay	Set	Threshold Limits
Group 1	Default	1	+oo > >MDCR >= 19.4500 > <MDCR > -oo
Group 1	Default	2	+oo > >MDA >= 44.3052 > <MDA > -oo

----- Definition Statistics -----

Definition Formula	Calculated Value
DEFINE Rb = 55	55.0000
DEFINE ts = 2	2.0000
DEFINE tb = 20	20.0000
DEFINE E = 0.439	0.4390

Calibration Date = February 15, 2022

BKGD Mean = 55 cpm

MDCR = 19.450

MDA = 44.305

----- Table arranged data -----

Sample ID	Position ID	CPM	CCPM	TDCR	DPM	Chemi	MDCR	MDA
Background	A01	53						
1	A03	56	1	0.513	2	0.00	<MDCR	<MDA
2	A04	47	0	0.484	0	0.00	<MDCR	<MDA
3	A05	48	0	0.505	0	0.00	<MDCR	<MDA
4	A06	42	0	0.405	0	0.00	<MDCR	<MDA
5	A07	44	0	0.360	0	0.00	<MDCR	<MDA
6	A08	52	0	0.476	0	0.00	<MDCR	<MDA
7	A09	52	0	0.423	0	0.00	<MDCR	<MDA



CUSTOMER SUPPORT CALL
 WWW.BECKMANCOULTER.COM

ACCOUNT	MODEL	SERIAL NUMBER	ID NUMBER
U S N I H 9000 ROCKVILLE PIKE BETHESDA, MD 20892-0001	LS6500	7070475	459579
CUSTOMER CONTACT	PURCHASE ORDER	PROPERTY NUMBER	
John Burton 301-402-6149 burtonjo@mail.nih.gov	Credit Card		
AGREEMENT TYPE	AGREEMENT NUMBER	EFFECTIVE DATES	
PP 8x5	S108322US R30-SEP-21 01:30:40-3-PP LS6500 Service Contract	3/1/2022 to 2/28/2023	
CASE NUMBER	CREATED DATE/TIME		
CA-04330777	3/15/2022 10:30 AM		
WORK ORDER NUMBER	COMPLETION DATE	PERFORMED BY	INSTRUMENT CONDITION
WO-04161506	3/28/2022 10:00 AM	KENT BRIER	Down

SUMMARY OF WORK PERFORMED

Reported Problem	RADIOACTIVE (Cs137) SOURCE REMOVAL & DISPOSAL
Symptom Summary	Decommission instrument
Problem Summary	Remove CS137 source.
Resolution Summary	CS137 source removed for disposal: FedEx: 567146050996 RA: UWE18MAR22
Verification of Activity	Decommission complete.

SYSTEM VALIDATION: For Medical Devices - Regulatory requirements call for a final validation of instrument repair and system readiness. The final validation of instrument repair and system readiness can only be obtained through a successful QC run using the laboratory's quality control system. This repair record and the laboratory's quality control records comprise the quality documents associated with this instrument repair. Copies of these records may be required by Beckman Coulter or regulatory authorities to complete technical investigations or quality audits. We appreciate your cooperation if requested to provide copies of your QC data related to this repair.

START DATE	END DATE	DESCRIPTION	HOURS	RATE	TOTAL LINE PRICE	CUSTOMER CHARGE
3/28/2022 7:00 AM	3/28/2022 9:00 AM	SERVICE TRAVEL	2	525.00 USD	1,050.00 USD	0.00 USD
3/28/2022 9:00 AM	3/28/2022 10:00 AM	SERVICE LABOR	1	525.00 USD	525.00 USD	0.00 USD
LABOR/TRAVEL TOTAL					1,575.00 USD	0.00 USD

PART NUMBER	PART DESCRIPTION	QTY	PRICE	TOTAL LINE PRICE	CUSTOMER CHARGE
DEINSTALLATION	Deinstallation Service Charge	1	2,500.00 USD	2,500.00 USD	2,500.00 USD
PARTS/EXPENSES TOTAL				2,500.00 USD	2,500.00 USD
TOTAL CHARGE				4,075.00 USD	2,500.00 USD

Customer Call Originator: John Burton Name of Person Signing Service Report:	Technician Name: KENT BRIER
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[Handwritten Signature]

Customer Signature

[Handwritten Signature]

Technician Signature

Total is an estimate only and does not include applicable sales tax and shipping charges.