

# GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	36	Dates:	9/12/2021-9/18/2021	Counted On	9/13/2021
INSTRUMENT USED: Quantasart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.		uCi/swipe = CPM:C * Control Factor		uCi/cm <sup>2</sup> = CPM:C * Control Factor / 100	
Limit of quantification (LOQ)=		8.77E-08 uCi/cm <sup>2</sup>		QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK	
Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm <sup>2</sup>	NOTE
1.	BACKGROUND 1	28	*****	*****	
2.	BACKGROUND 2	23	*****	*****	
3.	BACKGROUND 3	30	*****	*****	
4.	BACKGROUND 4	29	*****	*****	
5.	BACKGROUND 5	25	*****	*****	
6.	BACKGROUND 6	32	*****	*****	
7.	B021 ELEVATOR ENTRANCE	28	M	M	
8.	B021 FENCED GATE	28	M	M	
9.	B021 RAM SAFE	29	M	M	
10.	B021 EAST FLOOR	27	M	M	
11.	B021 NORTH BENCH TOP	31	M	M	
12.	B021 WEST LAB FLOOR	30	M	M	
13.	B021 WORK PLATFORM	28	M	M	
14.	B021 CALORIMETER	27	M	M	
15.	B021 COMPUTERS	28	M	M	
16.	B021 DSC/TGA	23	M	M	
17.	B021 SOUTH BENCH TOP	24	M	M	
18.	121 DOORWAY	27	M	M	
19.	121 GLOVE BOX- FLOOR	30	M	M	
20.	121 GLOVE BOX	28	M	M	
21.	121 WEST BENCH TOP	25	M	M	
22.	121 CENTER OF LAB	34	M	M	
23.	122 EAST BENCH TOP	23	M	M	
<sup>36</sup> CI SOURCE 09/14/1971		50171		*****	*****
		101.16%	CALIBRATION CHECK OK?		YES
Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contamination limit of 1 x 10 <sup>-6</sup> uCi/cm <sup>2</sup> .					
SURVEY PREPARED BY: R. Bergman			REVIEWED BY: J. Cummings		
SIGN/DATE: <i>R. Bergman</i> 09/14/21			SIGN/DATE:		

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210913\_1350

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210913\_1350\20210913\_1350.results

Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On

Luminescence Correction: Off

Colored Samples: n/a

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

P#	DATE	TIME	S#	Count	Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	9/13/2021	1:51:31 PM	1	5.00	22	5	28	288.20		
1	9/13/2021	1:57:55 PM	2	5.00	19	4	23	347.06		
1	9/13/2021	2:04:12 PM	3	5.00	26	4	30	238.42		
1	9/13/2021	2:10:38 PM	4	5.00	23	7	29	298.60		
1	9/13/2021	2:16:59 PM	5	5.00	22	3	25	227.66		
1	9/13/2021	2:23:26 PM	6	5.00	25	7	32	324.42		
1	9/13/2021	2:29:44 PM	7	5.00	22	6	28	310.56		
1	9/13/2021	2:36:08 PM	8	5.00	22	6	28	251.32		
1	9/13/2021	2:42:35 PM	9	5.00	25	4	29	245.12		
1	9/13/2021	2:49:01 PM	10	5.00	23	4	27	210.29		
1	9/13/2021	2:55:27 PM	11	5.00	24	6	31	289.62		
1	9/13/2021	3:01:51 PM	12	5.00	24	6	30	237.28		

Protocol# 1 - Reactor Weekly.lsa

User: CSE

1	9/13/2021	3:08:19 PM	13	5.00	22	6	28	260.69
1	9/13/2021	3:14:45 PM	14	5.00	24	3	27	168.92
1	9/13/2021	3:21:12 PM	15	5.00	23	5	28	231.85
1	9/13/2021	3:27:30 PM	16	5.00	20	3	23	190.43
1	9/13/2021	3:33:53 PM	17	5.00	21	3	24	153.03
1	9/13/2021	3:40:13 PM	18	5.00	23	5	27	219.78
1	9/13/2021	3:46:35 PM	19	5.00	24	6	30	172.87
1	9/13/2021	3:52:59 PM	20	5.00	23	5	28	250.63
1	9/13/2021	3:59:24 PM	21	5.00	20	5	25	230.80
1	9/13/2021	4:05:45 PM	22	5.00	28	6	34	233.22
1	9/13/2021	4:12:12 PM	23	5.00	20	3	23	188.70
1	9/13/2021	4:17:53 PM	24	5.00	14628	35543	50171	1016.83



