LOG SHEET FOR SURVEY OF INCOMING RADIOISOTOPE PACKAGES

NAME:						DATE		
vial of radioi reading with radioactive a	sotope. For initiathe pre-shipping rea for swipe test	ll survey, record survey entry on area. Include s	d survey meter in the surface of the sealed standards	readings in CPM the incoming pa with wipe test	M in mR/hr; con ackage. Check a samples. Calcu			
RADIOISOTOPE INVENTORY #								
A. INITIAL	SURVEY MET	ER SCAN:						
Use calibrate	d survey meter.	I	BATTERY CH	ECK	_			
	BACKGROUND		3 FEET		AT SURFACE			
READING	СРМ	mR/hr	CPM	mR/hr	CPM	mR/hr		
_	with mR/hr entry ESTS: Locatio	n # must corres			LSC printout to t	this log sheet.		
	LOCATION				СРМ	NET		
#		DESCRIP'	TION		CTWI	DPM		
1	OUTE	R SURFACE C						
2	INNER SURFACE OF OUTER BOX							
3	OUTER SURFACE OF INNER CONTAINER							
4	OUTER SUR							
5	INNER SURFACE ON INNER CONTAINER							
6	Al							
7		ROUND (NEGA		NA				
8	SEALED STANDARD BACKGROUND				NA			
9 S	EALED STAND	ARD (Record o	lpm printed on	the LSC vial)				
	ard isotope: calculation on b S/FOLLOW-UP:		ed Standard Effi	ciency (CPM/I	DPM)			
1. Label i 2. Label i	NG/RECORD: sotope vial with I sotope vial with I its receipt on a n	nventory Numb		Use Log"				
RADIOISOT	OPE SATISFAC	TORILY SUR	VEYED AND	CHECKED IN				
		Signature of	of Surveyor					

Molecular Medicine Research Institute (Rev 3-6-08)

Example Calculation (14C):

	LOCATION	RESULTS	
#	DESCRIPTION	СРМ	NET DPM
1	OUTER SURFACE OF OUTER BOX	35.35	13.69
2	INNER SURFACE OF OUTER BOX	20.00	0
3	OUTER SURFACE OF INNER CONTAINER		
4	OUTER SURFACE OF VIAL OF RADIOISOTOPE		
5	INNER SURFACE ON INNER CONTAINER		
6	ANY PACKING MATERIAL		
7	BACKGROUND (NEGATIVE CONTROL)	22.15	NA
8	SEALED STANDARD BACKGROUND	20.23	NA
9	SEALED STANDARD (Record dpm printed on the LSC vial)	45793.25	47500

Sealed standard isotope: 14C Sealed Standard Efficiency (CPM/DPM). 0.964

Step 1. Net cpm of sealed standard: 45793.25 - 20.23 = 45773.02 cpm

Step 2. Efficiency: $45773.02 \text{ cpm} \div 47500 \text{ dpm} = 0.964$

Step 3. NET DPM:

#1 Example:

35.35 - 22.15 = 13.20 cpm above background 13.20 cpm $\div 0.964$ cpm/dpm = 13.69 dpm

#2 Example:

20.00 - 22.15 = -2.15 cpm above background -2.15 cpm $\div 0.964$ cpm/dpm = -2.23 dpm Net dpm is below background. Enter 0 dpm.