

Appendix D

Conversion Factors

I. Activity:

1,000 mCi	=	1 Ci	=	37 GBq	
1,000 uCi	=	1 mCi	=	37 MBq	
250 uCi	=	0.25 mCi	=	9.25 MBq	
100 uCi	=	0.1 mCi	=	3.7 MBq	
50 uCi	=	0.05 mCi	=	1.85 MBq	
1 uCi	=	00.001 mCi	=	37 KBq	
1 Ci	=	2.22×10^{12} dpm	=	3.7×10^{10} dps	= 37 GBq
1 mCi	=	2.22×10^9 dpm	=	3.7×10^7 dps	= 37 MBq
1 uCi	=	2.22×10^6 dpm	=	3.7×10^4 dps	= 37 KBq
			=	1 dps	= 1 Bq

(dpm = cpm / efficiency)

II. Prefixes for the International System (IS) of Units:

<i>Factor</i>	<i>Prefix</i>	<i>Symbol</i>
10^{18}	exa	E
10^{15}	peta	P
10^{12}	tera	T
10^9	giga	G
10^6	mega	M
10^3	kilo	K
10^{-3}	mill	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a

III. Dose and Dose Equivalents:

<i>Physical Quantity</i>	<i>Non-SI Unit</i>	<i>SI Unit</i>	<i>Relationship</i>
Absorbed Dose	rad	gray (Gy)	1 Gy = 100 rads
		1 Gy = 1 J/kg	1 rad = 0.01 Gy
			1 rad = 10 mGy
Dose Equivalent	rem	Sievert (Sv)	1 Sv = 100 rems
		1 Sv = 1 J/kg	1 rem = 0.01 Sv
			1 rem = 10 mSv