

COMMON RADIONUCLIDES, ENERGIES AND HALF-LIVES					
Isotope	Types of Emissions + (Energies)	Physical Half-Life T_p 1/2	Biological Half-Life T_b 1/2	Effective Half-Life T_e 1/2	% Remaining After 31 Days
H-3	β^- (18.6 KeV)	12.3 years	12 days	12 days	0.9953
C-14	β^- (0.156 MeV)	5730 years	12 days	10 days	0.9999
Na-22	β^+ (0.542 MeV) Gamma (1.275)	950 days	11 days	11 days	0.9776
P-32	β^- (1.709 MeV)	14.3 days	1155 days	13.5 days	0.2226
S-35	β^- (0.167 MeV)	87.3 days	623 days	76.4 days	0.7818
		87.3 days	90 days	44.3 days	
Cl-36	β^- (0.714 MeV)	3.1×10^5 years	29 days	29 days	1.0000
K-42	β^- (3.52 MeV)	12.4 hours	58 days	12.4 hours	0.0000
Ca-45	β^- (0.252 MeV)	164 days	49.3 years	162 days	0.8772
I-125	Gamma (35 KeV)	60.0 days	138 days	41.8 days	0.6990

* This number pertains to the physical decay of the radionuclide. This is not the percentage remaining in the body after 31 days.

For other radioisotopes, please call Environmental Health and Safety, 593-1666.