

Supplemental Information

Table of primary energy lines for elements of biological interest.

Element	K α_1 (keV)	L α_1 (keV)
Cl	2.622	
Cr	5.414	
Mn	5.898	
Fe	6.403	
Co	6.930	
Cu	8.047	
Zn	8.638	
Br	11.923	1.480
I	28.610	3.937
Sm	40.124	5.636
Eu	41.529	5.846
Gd	42.983	6.039
Ho	47.528	6.720
W	59.310	8.396
Os	62.991	8.910
Ir	64.886	9.173
Pt	66.820	9.441
Au	68.794	9.711
Hg	70.821	9.987
Pb	74.957	10.549
U		13.613

Energies for the primary K and L lines have been extracted from Markowicz, A. A. (2002). *Handbook of X-Ray Spectrometry*, edited by R. E. van Grieken and A. A. Markowicz, 2nd Edition, Chapter 1, X-ray Physics, pp. 1 – 94. New York: Marcel Dekker, Inc. The reader is referred to this text for a full listing of principal emission lines.

Note that the proper selection of the energy to monitor for a particular system should be based on the instrument excitation source and detector, as well as the particulars of the system being studied.