

3.3.3 Magnesium (Mg)

Using Atomic Emission Spectroscopy (AES), a calibration curve made from six standards with concentrations ranging from 156.25 ppb to 5000 ppb, the magnesium content of both organic and non-organic banana samples was determined. These standards' intensity levels are listed in Table 3.5.1 and the magnesium concentration data are visually represented in Graph 3.5.2.

Table 9: Magnesium Standards and Intensity Values for Calibration Curve

Standards	Concentration (ppb)	Intensity
Blank	0	0.02
Standard 1	156.25	31326.08
Standard 2	312.5	73097.12
Standard 3	625	162222.67
Standard 4	1250	311755.06
Standard 5	2500	593201.89
Standard 6	5000	1086391.99

Graph 3.3 Calibration Curve for Magnesium Concentration Based on AES Intensity

