

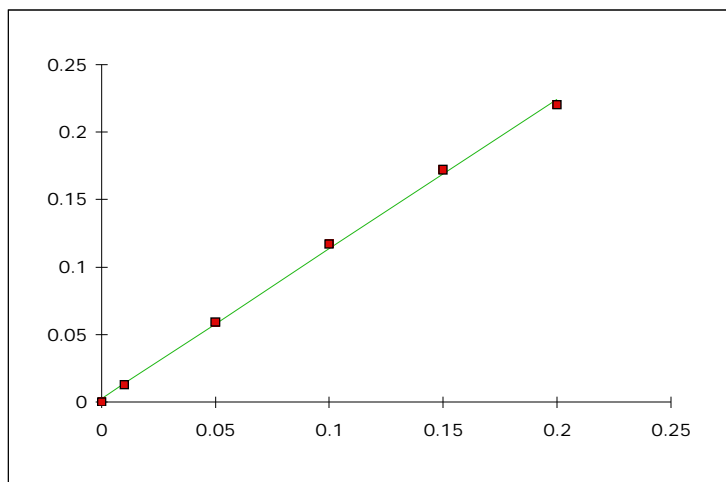
Typical Results from the Determination of Magnesium in Glass

Sample ID	Wavelength (nm)	[Mg] (mg/L) from linear regression	Mg content (mg/g glass)
Windshield Glass 1	202.6	6.6 ± 0.2	13.2 ± 0.4
Windshield Glass 2	202.6	7.7 ± 0.2	15.4 ± 0.4
Lipton Iced Tea Bottle	202.6	3.4 ± 0.2	6.8 ± 0.4
Headlight Toyota Celica	285.2	0.043 ± 0.005	0.09 ± 0.01
Headlight Chevrolet Eurosport	285.2	0.063 ± 0.005	0.12 ± 0.01
Headlight Oldsmobile Cutlass Ciera	285.2	0.102 ± 0.005	0.20 ± 0.01
Headlight Toyota Corolla	285.2	0.011 ± 0.005	0.02 ± 0.01
Blank	285.2	-0.003 ± 0.005	-0.01 ± 0.01

Typical Calibration Curve Data for Magnesium

At 285.2 nm

Mg Conc. (ppm)	Absorbance	SD Absorbance	Predicted Abs.	Residual
0	0.000	0.001	0.003	-0.003
0.01	0.013	0.001	0.014	-0.001
0.05	0.059	0.001	0.058	+0.001
0.10	0.117	0.001	0.113	+0.004
0.15	0.172	0.001	0.169	+0.003
0.20	0.220	0.001	0.224	-0.004



At 202.6 nm

Mg Conc. (ppm)	Absorbance	SD Absorbance	Predicted Abs.	Residual
0	0	0.001	0.004	-0.004
0.5	0.019	0.001	0.016	0.003
2.0	0.061	0.002	0.052	0.009
5.0	0.125	0.003	0.125	0.000
7.5	0.185	0.002	0.185	0.000
10.0	0.236	0.004	0.245	-0.009

