

Experiment 2: Spectrophotometric Determination of Fe Spring 2007
 Summary of Results

ϵ ($M^{-1} \text{ cm}^{-1}$)	95% CI	mg Fe in tablet	95%CI
11710	90	30.27	0.48
11369	149	31.64	0.82
11723	40	32.94	0.21
11472	169	30.26	0.92
11350	157	30.09	0.87
11490	63	31.14	0.35
11549	249	32.07	1.35
11587	242	31.60	1.31
11772	175	30.79	0.93
13625	774	29.35	3.57

Consensus:	31.0	0.8
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$t_{\text{calc}} = 17.7 \Rightarrow$ there is only a 3×10^{-6} % probability that the consensus value differs from the nominal value (25 mg) due only to random error!