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Chemistry 2

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Consumer Report

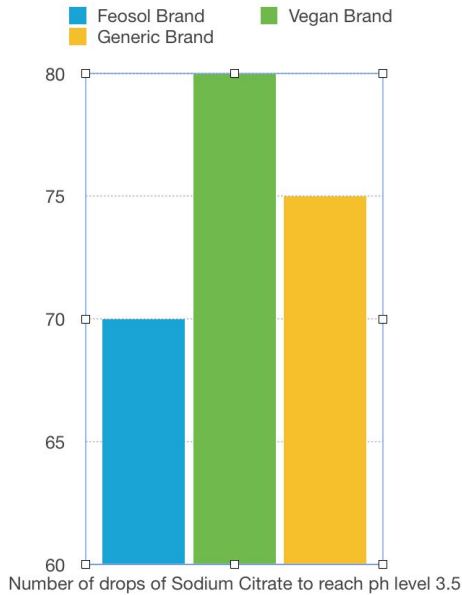
Analysis

	Number of Sodium Citrate Used to get the ph to 3.5	Iron Concentration in parts per million	Price per tablet
Feosol Brand	70 drops	2	10.7¢ / ea.
Vegan Brand	80 drops	1.5	7.8¢ / ea.
Generic Brand	75 drops	1	N/A
Matrix Spike with 40 ppm solution	N/A	4.5	N/A

What is Iron? Iron is a mineral that is present in many foods, added to some food products, and is available as a dietary supplement. It's an essential component of hemoglobin, which is an erythrocyte protein that transfers oxygen from the lungs to the tissues. As a component of myoglobin, a protein that provides oxygen to muscles, iron supports metabolism. Iron is also necessary for growth, development, normal cellular functioning, and synthesis of some hormones and connective tissue.

The table above shows that we added different amounts of sodium citrate to each brand of iron to get the ph level to 3.5. The reason why that is, is because it stayed acidic for a long amount of time. The ph levels were all acidic and all of the brands were mostly similar. But,

when compared to the iron concentration, it was all different. Perhaps, it is because of the amount of time when this experiment was done. It did take about two weeks to finish it.



The data table above shows that the results for each tablet is not similar. The Feosol brand costs more than the Vegan Brand. Probably, the reason why the results are different of the level of acidity is because of the prices of each brand. So, our hypothesis was right. Because there is a difference in the amount of iron that is in the organic iron brand and the generic brand.

There are things that could have gone wrong which could have caused our results to be inaccurate. Based on how this experiment took about a few days, the results could have been really different from our actual results.