

Lab #2 "WHICH "ANTACID IS THE BEST BUY?"

Purpose: to compare four different brands of antacid tablets with respect to their abilities to "neutralize" excess stomach acid that drops below a pH of 3 (the normal pH of the stomach). This comparison will also be based upon price.

Materials: safety glasses mortar and pestle 4 antacids
 electronic balance Erlenmeyer flask Congo red indicator
 hydrochloric acid eyedropper

Method:

1. Record the price, number of tablets and the name of the active ingredient of your first antacid.
2. Record the recommended dose.
3. Find the mass of one recommended dose.
4. Grind these tablets up using a mortar and pestle.
5. Transfer all of the powder to the Erlenmeyer flask.
6. Add 5 drops of Congo red indicator.
7. Add acid, one drop at a time until you have achieved the required colour change. **KEEP TRACK OF YOUR NUMBER OF DROPS** and record them.
8. Clean out your flask and repeat for the next antacid until they are all done.

Results:

Name of Antacid		Name of Antacid	
Active ingredient		Active ingredient	
Cost of bottle		Cost of bottle	
# of tablets per bottle		# of tablets per bottle	
Recommended dose		Recommended dose	
Mass of recommended dose		Mass of recommended dose	
# of drops of acid		# of drops of acid	

Name of Antacid		Name of Antacid	
Active ingredient		Active ingredient	
Cost of bottle		Cost of bottle	
# of tablets per bottle		# of tablets per bottle	
Recommended dose		Recommended dose	
Mass of recommended dose		Mass of recommended dose	
# of drops of acid		# of drops of acid	

