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Analysis Of Commercial Antacids Lab

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Titration Lab #4 Analysis of Antacids Purpose: The purpose of this lab is to determine the cost effectiveness of several commercial antacids. Introduction: The human stomach produces hydrochloric acid to aid in the digestion of food components such as proteins. Stomach acid is approximately 0.1mol/L hydrochloric acid.

Titration Lab #4 Analysis of Antacids

It would seem possible to perform the analysis of the antacids in a similar fashion to that used in the last experiment, i.e. dissolve the antacid in water, add an indicator and titrate with a base whose concentration is known. However, there are prohibitive drawbacks to this: 1. The active ingredients are at best, only sparingly soluble in water.

Experiment 3 Stoichiometry - Solution/Solution Evaluating ...

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Chemistry 104: Analysis of Commercial Antacid Tablets. Hydrochloric acid (HCl) is one of the substances found in gastric juices secreted by the lining of the stomach. HCl is needed by the enzyme pepsin to catalyze the digestion of proteins in the food we eat. Heartburn is a symptom that results when the stomach produces too much acid (hyperacidity).

Chemistry 104: Analysis of Antacid Tablet

Analysis of Commercial Antacids Lab? for sample A- Tums. It is

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\$3.80 for 56 doses. There is 5.9 grams in every dose. sample B- Rolaids. It is \$3.80 for 88 doses. There is 2.72 grams in every dose. sample C- Alka Seltzer. It is \$5.45 for 36 doses. There is 6.49 grams in every dose. sample D- Baking Soda.

Analysis of Commercial Antacids Lab? | Yahoo Answers

Analysis of Commercial Antacids Lab? We did a lab where we titrated antacids with NaOH after dissolving in HCl. Given this information: Sample Cost/dose grams/dose. A \$3.8/56 5.9/dose. B \$3.8/88 2.72/dose. C \$5.45/36 6.49/dose ...

Analysis of Commercial Antacids Lab? | Yahoo Answers

III. Analyzing an antacid preparation 7. record the mass of the 3 tablets 8. pour 40 mL of distilled water and put the tablet in the flask with HCl 8. boil the 3 flask on the hot plate 9. cool the flask with cold water then add 10 drops of bromohol blue indicator in the HCl (turns the flask yellow) 10.

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Evaluating Commercial Antacids Flashcards | Quizlet

Antacids are bases that react stoichiometrically with acid. The number of moles of acid that can be neutralized by a single tablet of a commercial antacid will be determined by back titration. To do the experiment, an antacid tablet will be dissolved in a known excess amount of acid.

Lab 4 - Determination of the Amount of Acid Neutralized by ...

Results: From Part A of this experiment, it was found that the average volume of titrant used to complete the reaction was approximately 26.05 mL meaning that it took about 26 mL of NaOH (aq) for the moles of each reagent to equal each other. This makes sense considering that both are stoichiometrically equivalent given their common molar coefficient.

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Acid-Base Titrations: Standardization of NaOH and Antacid

Analysis of Commercial Antacid Tablets Lab #7 Kaylee Burnham Nicholas Ezzell CH 1221 Section 22 1 March 2016 17:00 Jinyan 3 March 2016 Purpose In this experiment, 8 antacids will be tested to see how well it neutralizes stomach acid. A sample of the antacid will be dissolved in hydrochloric acid and water and heated.

Lab Report #7 - Analysis of Commercial Antacid Tablets Lab ...

Shot by Paul J. Ramsey, Media Resources, Eastern Kentucky University.

Chemistry Lab - Analysis of Antiacid - YouTube

An Analysis of Commercial Antacids Page 2 In this experiment, a portion of an antacid tablet will be dissolved in 50.00 mL of

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standard 0.100 M HCl solution simulating stomach acid. The antacid will neutralize some of the known amount of acid present in the sample of acid.

Solved: EXPERIMENT 19 An Analysis Of Commercial Antacids A ...

1. Weigh each tablet on the electronic scale. 2. Crush one of each tablet into powder using mortar and pestle. 3. Measure about 20 mL of HCl in a graduated cylinder. Move it to an erlenmeyer flask. 4. Measure 0.3 grams of a given antacid on a tared piece of paper on an electronic

Analysis of Antacid Tablets by rebekah ferrini on Prezi Next

calculate how much acid reacted with the antacid. This method of analysis is called a back-titration. The reactions above are reversible, which means that CO₂ dissolved in water will produce

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some carbonic acid. This acid will react with the NaOH we are titrating and give us inaccurate results.

Titration of a Commercial Antacid

The purpose of this lab is to determine, by testing several dissolved commercial antacid solutions, which can best neutralize acid and is the most effective for heartburn.

Antacid Report Essay - 1470 Words

acid. In this experiment you will be testing the effectiveness of commercial antacids by determining the amount of acid that they neutralize by titration. There are no new stoichiometry concepts in this lab rather it combines the concepts that you have met in the last two experiments, namely: Solids # moles = mass in grams/Molar Mass

Experiment 3 Stoichiometry Solution/Solution Evaluating

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...

In this experiment, we will analyze a commercial antacid for the amount of calcium carbonate present. The stomach contains among other things, hydrochloric acid (Carter, biology.clc.uc.edu). This is the acid that causes the gastric juices in the stomach to digest food at a pH of around 2 or 3(Carter, biology.clc.uc.edu).

Lab Report - Rowlands 1 Analysis of Commercial Antacids

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A number of commercial antacids are available to neutralize the excess acid. It should be remembered that antacids should be consumed in limited amounts in order that the stomach not be made alkaline. In this experiment, several brands of antacid tablets will be compared for their capacity to neutralize hydrochloric acid. 7A Experiment

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