

Title: ANALYSIS OF AN ANTACID USING BACK TITRATION

Aim: To determine the percentage of the active ingredient in a brand of antacid using back titration.

Apparatus: Antacid tablets, burette, distilled water, beaker, conical flask, measuring cylinder, dropper, pipette, scale, clamp stand, filter paper, funnel, stirring rod.

Reagents: Sodium hydroxide, hydrochloric acid, phenolphthalein, methyl orange and potassium hydrogen phthalate (PHP)

Procedure:

I. BACK TITRATION

- (a) An antacid tablet was placed on the analytical balance using filter paper.
- (b) The tablet was transferred to a 250ml conical flask.
- (c) 25ml of 1M HCL was pipetted and added to the conical flask.
- (d) 2-3 drops of methyl orange was added and titrated with sodium hydroxide until the endpoint is achieved.
- (e) Steps (a) to (d) were repeated using a new tablet and another conical flask.

II. STANDARDIZATION OF SODIUM HYDROXIDE SOLUTION

- (a) 4g of KHP was weighed on filter paper.
- (b) The solid was transferred to a conical flask
- (c) 20ml of distilled water was added to the flask
- (d) 2 – 3 drops of phenolphthalein were added to the flask and titrated with sodium hydroxide until the endpoint was achieved.
- (e) Steps (a) – (d) were repeated using a fresh flask.

Results:

I. BACK TITRATION

	Antacid Tablet 1	Antacid Tablet 2
Mass of Tablet/g	2.118	2.026
Initial Volume/cm ³	0	9.0
Final Volume/cm ³	9.0	13.1
Volume of NaOH used/cm ³	9.0	9.1

TABLE SHOWING THE VOLUME OF NaOH USED IN THE BACK TITRATION

II. STANDARDIZATION OF SODIUM HYDROXIDE SOLUTION

	Flask 1	Flask 2
Mass of KHP/g	4.005	4.013
Initial Volume/cm ³	0	20.35
Final Volume/cm ³	20.35	40.60
Volume of NaOH used/cm ³	20.35	20.25

TABLE SHOWING THE VOLUME OF NaOH USED IN THE STANDARDIZATION OF NaOH

Calculations:

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