

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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Anne M Van Leeuwen, Mickey L Bladh



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Baird, 2021-10-13 Selected for Doody's Core Titles 2024 in Critical Care Coverage of more than 75 disorders most commonly seen in progressive and critical care settings equips you with all the content needed to handle problems in critical care nursing Consistent easy to use format mirrors a practicing nurse's approach to patient care and facilitates quick reference to vital information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Gerontologic considerations and bariatric considerations are highlighted throughout to direct attention to patients with unique needs in critical care settings NOC outcomes and NIC interventions apply standardized nursing taxonomies to the disorders and conditions most commonly encountered in progressive and critical care settings Portable size makes it ideal for use on the

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