

**A STUDY ON OFFICIAL QUALITY CONTROL PARAMETERS  
OF DIFFERENT CETIRIZINE BRANDS AVAILABLE IN  
KENYA.**

**A research project presented to the school of pharmacy in partial fulfillment  
of the requirements for the award of bachelor of pharmacy, of Mount Kenya  
University.**

**Victor Ndegwa Wahome**

**Reg no: Bph/110/00407**

**Department of pharmaceutical chemistry**

**School of pharmacy.**

**2013**

## ABSTRACT

The term quality control refers to the sum of all procedures undertaken to ensure the identity and purity of a particular pharmaceutical. Such procedures may range from the performance of simple chemical experiments which determine the identity and screening for the presence of particular pharmaceutical substance e.g. thin layer chromatography and infrared spectroscopy, to more complicated requirements of pharmacopoeial monographs. This study involved the test of the tablets friability, disintegration, weight uniformity and dissolution rates in order to assess batch to batch consistency and detect any deviations of manufacturing. The purpose of this research was to evaluate various quality control parameters and to establish if they were in compliance with United States pharmacopoeia specifications. The study employed analytical techniques which enabled provision of a contextually complete description. The data collected was recorded in the process of analysis. Descriptive statistics were calculated and the data analyzed and interpreted in order to come up with viable conclusions. The study was conducted at Mount Kenya university laboratory of pharmaceutical chemistry. This study was conducted between April and August 2013. From the analysis of the results, it was observed that the drug weight uniformity, friability, disintegration time and dissolution profiles of all the products used in the study were within specified limits. It's recommended that each batch of cetirizine tablets produced by every company undergoes quantitative and qualitative analysis to ensure that it meets quality standards as specified by the official books.