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**COMPARISON OF PERCENTAGE CONTENT
OF THE ACTIVE INGREDIENTS BETWEEN
ORIGINAL AND GENERIC FANSIDAR
TABLETS CIRCULATING IN KENYA
MARKET**

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ABSTRACT

Four samples of fansidar tablets collected from various chemist shops around Nairobi area were analysed to check the percentage content of the active ingredients.

Samples one, two and three were generics (Drugs manufactured by other manufacturers after having consent from the mother company) while sample four was original (drug manufactured by a company which first started manufacturing it).

A standard was prepared in the same way as the samples for comparison. Once a sample and a standard are injected in High pressure liquid chromatography (H.P.L.C) machine alternatively, they produce peak's areas as shown in appendices I,II,III and IV.

The peak's areas of the standard are compared with the peak's areas of the sample. Since the concentration of the standard is known, the concentration of the sample is then got by comparison taking into account the dilutions made. Then the result is divided by the label claim (What the manufacturer is claiming the drug to contain for instance in this case, each uncoated tablet contains sulfadoxine USP 500 mg and pyrimethamine USP 25 mg).

To get percentages, the result is eventually multiplied by 100% as shown in chapter three.

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CHAPTER ONE

1.0 INTRODUCTION

In Kenya market, there are various antimalarial drugs which include chloroquine, Malariaquine and fansidar tablets among others.

Fansidar tablets are currently the most commonly used drugs as these effectively cure malaria. Two active ingredients namely sulfadoxine and pyrimethamine make up these tablets.

The active ingredients combine together to form antimalarial compound. These drugs are normally prescribe by a physician.

The mother company who started the manufacturing of this drug produces original fansidar tablets but after a period of time, it allows other manufacturers to produce the same drug. These are the manufacturers who produce the generic ones.

In the local market today, there are many manufacturers who produce generic fansidar tablets. When these are compared with the original, the percentage content of the active ingredients between the generic and original fansidar tablets are expected to be the same but because of different producers, original one shall have the right percentage composition of the active ingredients together with some generic while some generics