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SUGAR TECHNOLOGY
RESEARCH INSTITUTE

Biotransformation of Sugar Cane Phytosterols Into Drug Intermediate

A Thesis

Presented to

SUGAR TECHNOLOGY RESEARCH INSTITUTE

For the Master Degree of Sugar Technology
(Chemistry)

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PREFACE

During the last decades there have been a great interest for the sugar cane by-product utilization.

Phytosterols from filter press cake play an important role in production of many valuable products such as AD & ADD. The present study was started by collection and drying the filter press cake, extraction and purification of sterols. This was followed by investigation of the capacity of some locally isolated microorganism to produce AD & ADD, followed by studying the production process under a variety of some physiological and biochemical factors affecting the production of AD & ADD such as suitability of the fermentation medium, time course, pH relation, metabolic inhibitors, etc.

It is hoped that the results of this study may add some useful information which lead to better understanding of steroid transformation.

ACKNOWLEDGMENT

I am deeply thanks to God, by the grace of whom the progress and success of this work are possible .

My deepest gratitude to Prof. . Dr. M. A. Abd El- Hafiz professor of pharmacognosy, faculty of pharmacy Assiut university for supervising, much valuable, continued guidance, encouragement and revising the manuscript.

I am greatly appreciated to Prof. .Dr.. l. A. Sallam, Professor of Natural & Microbial Products chemistry, National research center Dokki, Cairo, Egypt, for suggesting the topic, valuable guidance, helpful discussion and revising the manuscript.

It is a pleasure to express my gratitude and sincere thanks to Dr .Abd-.Elsalam, I.S. Natural & Microbial Products chemistry, National research center Dokki, Cairo, Egypt. Microbial Products chemistry, National research center Dokki Cairo, Egypt, for supervising this work encouragement sincere help in preparing the manuscript.

A am also indebted to prof. Dr. M.R Bayomy . Dean of sugar technology institute Assiut university for his continuous encouragement and keen interest .

A special thanks and appreciation to Prof. Dr .M. Mahran prof. of applied chemistry, National research center for his continuous help .

Finally, sincere thanks are appreciated for all members of the department of chemistry of natural & Microbial Products National research center the author feels much thanks and grateful appreciation for their help and assistance.

I must offer my deepest appreciation and very special thanks to all members of Zus Sugar Factory and Chemical Factory for giving the encouragement and support.

I must offer my deepest appreciation and very special thanks to all members of my family for giving the encouragement and support.

contents

Introduction	1
1 . 1 General	1
1 . 2 Composition of sugar cane juice	1
1 . 3 Liming process	1
1 . 4 Composition of filter cake:	3
1 . 5 Sterols from filter cakes	3
1 . 6 Extraction of cane Wax	7
1 . 7 Investigation of the fatty Lipids	8
1 . 8 Microbiological transformation of sterols	10
1 . 9 Mechanism of sterol degradation	13
1 . 10 Inhibition of sterol ring degradation	15
Materials and Methods	15
2 – 1- Materials	18

2 1-1- Microorganisms	18
2-1-2 Chemical	18
2-1-3 Solvent system	19
2-1-4- Reagents	19
2-1-5- Apparatus and Equipment	20
2 -2 Methods	21
2 - 2-1 Preparation of press cake	21
2 2- 2 Extraction of mixed sterols	21
2 --2-3 Investigation Of Unsaponifiable Matter	22
2 -2-4 Isolation and purification of the phytosterol fraction	22
2-2-5 Maintenance of the microorganisms	23
2-2-6 Inoculums preparation	24
2-2-7 Transformation processes	24
2-2-7-1 Using fungi	24

optimum conditions	
3-3-10- Separation and identification of the transformation products	79
Discussion	85
Summary	94
References	98
Arabic Summary	111

List of Tables

Table (1) thin layer chromatograph of the unsaponifiable matter of filter cake.	31
Table (2) The ability of different microorganism to transform sterol mixture to AD and ADD.	36
Table (3) The quantitative estimation of the transformation products obtained by the selected microorganisms.	37
Table (4) suitability of the fermentation media on the bio conversion of the sterol mixture by <i>A. rubellus</i> .	42
Table (5) transformation time course of SM to AD and ADD using <i>A. rubellus</i>	45
Table (6) transformation of SM using <i>A. rubellus</i> as influenced by different initial pH value of the fermentation medium.	49