

THE ISOLATION AND STRUCTURAL ELUCIDATION
OF AGROCINOPINE C

A Thesis
submitted by

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TABLE OF CONTENTS

	Page
Summary	i
Declaration	ii
Acknowledgements	iii
1. INTRODUCTION	1
1.1 HISTORICAL BACKGROUND	1
1.2 THE Ti PLASMID	3
1.3 T-DNA	4
1.4 INSERTION OF FOREIGN GENES INTO PLANTS	7
1.5 BIOLOGICAL CONTROL	8
1.6 THE OPINES	9
1.6.1 The Opine Concept	9
1.6.2 Opine Chemistry	11
1.6.3 The Agrocinosines	12
2. MATERIALS AND METHODS	14
2.1 MAINTENANCE OF CULTURES	14
2.2 DETECTION OF AGROCINOPINE C AND D AND RELATED COMPOUNDS	14
2.2.1 Bioassay for Agrocinosine C	14
2.2.2 High Voltage Paper Electrophoresis (H.V.P.E.)	15
2.2.2.1 Preparative H.V.P.E.	15
2.2.2.2 Buffer systems commonly used in high voltage electrophoresis and conditions under which they are usually run	16
2.2.2.3 Detection agents	16
2.2.2.4 Determination of relative mobility	18
2.2.3 Paper Chromatography	18

	Page
2.3 PRODUCTION AND PURIFICATION OF AGROCINOPINE C AND D	19
2.3.1 Growth of Gall Tissue	19
2.3.2 Extraction of Agrocinopine C from Gall Tissue	19
2.3.3 Purification	19
2.3.3.1 Anion exchange chromatography (acetate form)	20
2.3.3.2 Anion exchange column chromatography (bicarbonate form)	20
2.3.3.3 Cation exchange chromatography (lanthanum form)	21
2.3.3.4 H.V.P.E.	21
2.4 PHYSICO CHEMICAL MEASUREMENTS	22
2.4.1 Infra-red Spectra	22
2.4.2 N.M.R. Spectra	22
2.5 TECHNIQUES RELATING TO DEGRADATIVE STUDIES	22
2.5.1 Acid Hydrolysis	23
2.5.2 Ammonolysis	23
2.5.3 Reduction	23
2.5.4 Enzymes	23
2.5.4.1 Glucose oxidase E.C. 1134	23
2.5.4.2 Alkaline phosphatase E.C. 3131	24
2.5.5 Quantitative Assays	24
2.5.5.1 Total phosphate determination	24
2.5.5.2 Inorganic phosphate determination	25
2.5.5.3 Total sugar content	25
2.5.5.4 Glucose determination	25
2.6 SYNTHESIS OF THE GLUCOSE PHOSPHATE STANDARDS	26
2.6.1 Glucose-2-Phosphate (G-2-P)	26
2.6.2 Glucose-4-Phosphate (G-4-P)	27

	Page	
2.6.3	Glucose-3-Phosphate (G-3-P)	27
2.6.4	Purification of Glucose Phosphate Standards	28
3.	RESULTS	29
3.1	BIOASSAY	29
3.2	PURIFICATION OF AGROCINOPINE C	29
3.2.1	Dowex 1X-2 Column (Acetate Form)	29
3.2.2	Dowex 1X-2 Column (Bicarbonate Form)	31
3.2.3	Cation Exchange Column (Lanthanum Form)	32
3.2.4	Preparative H.V.P.E.	32
3.2.5	Yield of Agrocinospine	33
3.3	STUDIES ON THE INTACT AGROCINOPINE	34
3.3.1	Staining Properties of Agrocinospine C and D	34
3.3.2	Electrophoretic pH Mobility Profile : Charge Characteristics	34
3.3.2.1	Electrophoretic mobilities in the complexing buffers	35
3.3.3	Paper Chromatography	35
3.3.4	Infra-red Spectra	36
3.3.5	¹³ C-N.M.R. Spectrometry	36
3.4	DEGRADATION STUDIES	37
3.4.1	Acid Hydrolysis	37
3.4.1.1	Brief acid hydrolysis	37
3.4.1.2	Complete acid hydrolysis	38
3.4.1.3	Acid hydrolysis time course	39
3.4.2	Ammonolysis	40
3.4.2.1	Properties of Ammonolysis Product C	41
3.4.2.2	Ammonium borate electrophoresis	41
3.4.2.3	Treatment with alkaline phosphatase	42
3.4.2.4	Treatment with glucose oxidase	43

	Page
3.4.3 Reduction of Agrocinospine C	44
3.4.3.1 Ammonolysis of reduced Agrocinospine C	45
3.4.4 Quantitative Measurement of the Individual Components in Agrocinospine C	46
3.4.4.1 Total phosphorous	46
3.4.4.2 Total sugar	46
3.4.4.3 Total D-glucose content	47
3.4.4.4 Comparison of phosphorous, sugar and glucose content	47
3.4.5 Glucose Phosphates	48
3.4.5.1 Electrophoretic mobilities	48
3.4.5.2 Electrophoretic mobilities of the reduced glucose phosphates	50
3.4.5.3 Comparison of the glucose phosphates with the Ammonolysis Products C	51
3.4.5.4 Bioassay	52
4. DISCUSSION	53
4.1 FORWARD	53
4.2 PURIFICATION	53
4.3 ELECTROPHORETIC pH MOBILITY PROFILE : CHARGE CHARACTERISTICS	55
4.4 IDENTIFICATION OF THE INDIVIDUAL COMPONENTS OF AGROCINOSPINE C	55
4.4.1 Acid Hydrolysis	56
4.4.2 Ammonolysis	56
4.4.3 Reduction of Agrocinospine C	57
4.5 INFRA-RED SPECTRA	58
4.6 LOCATION OF PHOSPHATE LINKAGES	58
4.6.1 Electrophoretic Mobilities of the Glucose Phosphates	58
4.6.2 Comparison of the Glucose Phosphates with the Ammonolysis Products from Agrocinospine C Degradation	60

	Page
4.6.3 Acid Hydrolysis Time Course	61
4.7 ¹³ C-NMR	62
4.8 COMPARISON OF CHEMICAL STRUCTURES OF THE AGROCINOPINES A, B, C AND D	66
APPENDIX 1	69
REFERENCES	70

SUMMARY

Agrocinopine C and D are members of the most recently discovered class of opines, the Agrocinopines. These compounds are of interest, not only because of their opine nature, but also because they interact with the biological control agent of crown gall, Agrocin 84, altering its toxicity. In the present investigation Agrocinopine C has been isolated, and purified by a combination of anion and cation exchange chromatography and H.V.P.E. Degradative and physico-chemical studies have shown that Agrocinopine C consists of D-glucose-2-phosphate, linked in a phosphodiester bond to the sixth carbon of the glucose moiety of a sucrose molecule. Agrocinopine D is closely related, the only difference being the loss of the fructose moiety of the sucrose molecule.

DECLARATION

This thesis contains no material which has been accepted for the award of any other degree or diploma in any University and to the best of my knowledge contains no material previously published or written by another person, except where due reference is made in the text.

A.E. Savage.

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