



TABLE OF CONTENTS

STATEMENT.....	ii
ACKNOWLEDGEMENTS.....	iii
TABLE OF CONTENTS.....	v
LIST OF TABLES	vii
LIST OF FIGURES	viii
ABSTRACT	ix
CHAPTER I.....	1
INTRODUCTION.....	1
1.1. Background	1
1.2. Research Problems	4
1.3. Objectives	4
1.4. Advantages	4
CHAPTER II.....	6
LITERATURE REVIEW.....	6
2.1. Civet Coffe	6
2.2. Near Infra-Red Spectroscopy (NIRS)	10
2.3. Chemometrics.....	14
2.4.1. Unsupervised Machine Learning	16
2.4.2. Supervised Machine Learning	19
2.4. Hypothesis.....	23
CHAPTER III.....	24
METHODOLOGY OF RESEARCH.....	24
3.1. Research Time and Place	24
3.2. Materials	24
3.3. Method of Research	27
3.4. Data Analysis.....	28
CHAPTER IV.....	30
RESULT AND DISCUSSION.....	30
4.1. Spectra	30



UNIVERSITAS
GADJAH MADA

VARIOUS SAMPLE TREATMENTS TO IMPROVE THE DISCRIMINATION BETWEEN WILD AND FEEDING CIVET COFFEE

USING NEAR-INFRARED SPECTROSCOPY IN CONJUNCTION WITH CHEMOMETRIC

Deyla Prajna Anindita Heru, Dr. Widiaستuti Setyaningsih, S.T.P., M.Sc.; Prof. Miguel Palma

Universitas Gadjah Mada, 2023 | Diunduh dari <http://etd.repository.ugm.ac.id/>

4.2. Exploratory Analysis (Unsupervised Method: HCA and PCA).....	32
4.3. Multivariate Techniques (Supervised Method: SVM and RF)	40
CHAPTER V	46
CONCLUSION AND SUGGESTION.....	46
5.1. Conclusion	46
5.2. Suggestion	46
REFERENCES.....	48