
CONTENTS

INTRODUCTION	1
REVIEW OF LITERATURE	8
MATERIALS AND METHODS	
(1) Experimental animals	28
(2) Drug	28
(3) Methods:	
(A) Dosage and experimental design	30
(B) Extraction method	31
(C) Methods used to identify the drugs: -	
I-Spot tests	32
II- Thin layer chromatography (TLC)	40
III-High performance liquid chromatographic technique (HPLC)	43
IV- Ultraviolet spectroscopy	44
V- Infra red spectroscopy	45
VI- Nuclear magnetic resonance (¹ H-NMR)	45
VII- Mass spectroscopy	45

RESULTS AND DISCUSSION**CHAPTER I**

Drug identification and characterization.	46
---	----

CHAPTER II

Detection of nalbuphine in postmortem rat tissues.	65
--	----

GENERAL SUMMARY	80
------------------------	----

REFERENCES	83
-------------------	----

ARABIC SUMMARY