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بسم الله الرحمن الرحيم

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التوثيق الالكتروني والميكروفيلم

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شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها

علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

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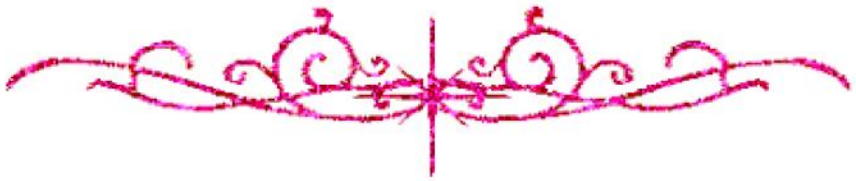
بعض الوثائق الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل

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A STUDY ON OPTIMIZATION OF MICROENCAPSULATION PROCESS USING EXPERIMENTAL DESIGN

A THESIS PRESENTED
BY

ABEER ABDEL-WAHAB EL-ZAINY

FOR THE DEGREE OF DOCTOR OF PHILOSOPHY
IN
PHARMACEUTICAL SCIENCES
(PHARMACEUTICS)
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THE SUPERVISION OF

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CONTENT

Part-I:
Preliminary experiments for optimization of microencapsulation of sulfur.

Chapter (1): Selection of polymers and microencapsulation technique for sulfur.

Microencapsulation of sulfur by:

I. Coacervation using non-solvent addition technique was applied for the following polymers :

[1] Eudragit-E

[2] Eudragit-L

[3] Eudragit RL PM

[4] Polyvinylpyrilidon (PVP)

[5] PVP & sodium silicate

[6] Cellulose acetate phthalate (CAP)

II. Coacervation using temperature change technique was adopted using: 17

[1] Ethyl cellulose (EC)

[2] EC & polyethylene (PG)

[3] EC & Polyisobutylene (PIB)

Part-II:

Optimization using experimental factorial design and statistical analysis.

Chapter (1): Selection of levels of independent variables.

List of tables