

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



بعض الوثائـــق الإصليــة تالفــة



بالرسالة صفحات لم ترد بالإصل

YGAE

Determination of diphenhydramine hydrochloride using screen printed and carbon paste electrodes

Presented by

Wael Gaber El-Sayed

(B.Sc. Degree, Chemistry, Ain Shams University 2002)

A Thesis Submitted

to

Faculty of Science

In the partial fulfillment of the requirements for

The M.Sc Degree

(Analytical Chemistry)

Submitted To
Chemistry Department
Faculty of Science
Cairo University

(2011)

ABSTRACT

Name: Wael Gaber El-Sayed

Title of the thesis: Determination of diphenhydramine hydrochloride using screen printed and carbon paste electrodes.

Degree: (M.Sc) unpublished M.Sc of Science Thesis, Faculty of Science-Cairo University, 2010.

This work has been carried out to investigate:

Development of new screen-printed and carbon paste ion-selective electrodes for the determination of DPH.HCl drug. The work has focused on the preparation of home made carbon ink and testing the performance of such ink in the fabrication of screen-printed carbon paste electrodes (SPEs) for the potentiometric determination of DPH.HCl in pure and pharmaceutical preparations. The performance of such sensors in the potentiometric determination of DPH.HCl is compared with those of CPEs, CWE, PVC and coated graphite electrodes.

Keywords: Diphenhydramine hydrochloride, screen-printed, carbon paste, sensors, pharmaceutical and potentiometric titration.

Supervisor

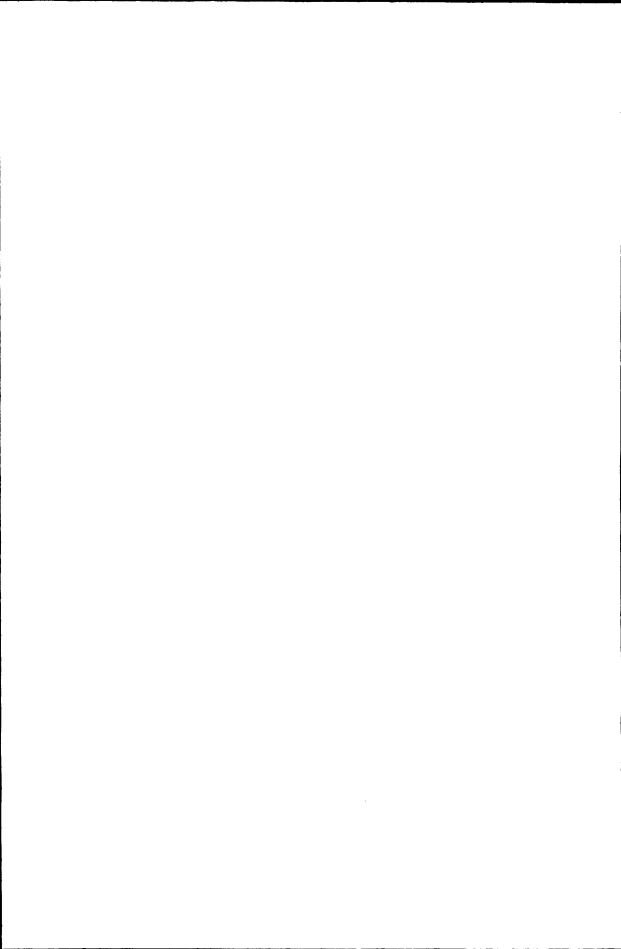
1- Prof. Dr. Gehad Genidy Mohamed

Signature

Prof. Dr. Mohamed A. Badawy

Chairman of Chemistry Department
Faculty of Science- Cairo University

Connad and



APROVAL SHEET FOR SUMISSION

Title of [M.Sc] Thesis: Determination of diphenhydramine hydrochloride using screen printed and carbon paste electrodes.

Name of candidate: Wael Gaber El-Sayed

This thesis has been approved for submission by the supervisor:

1- Prof. Dr. Gehad Genidy Mohamed

Signature:

Prof. Dr. Mohamed A. Badawy

Chairman of Chemistry Department Faculty of Science- Cairo University



STATEMENT

This thesis is submitted in partial fulfillment of the requirements of M.Sc. Degree. In addition to the work carried out in this thesis, the candidate has accomplished with success the post graduate studies in the following topics.

- 1. Advanced Analytical Chemistry.
- 2. Statistical Thermodynamics
- 3. Quantum Chemistry.
- 4. Advanced Inorganic Chemistry.
- 5. Surface Chemistry.
- 6. Studies on the Electrical Double Layer
- 7. Solar Energy
- 8. Voltammetry
- 9. Metallurgy.
- 10. Nuclear Chemistry
- 11. Electrochemistry of Molten Salts
- 12. Catalysis.
- 13. X-ray Analysis.
- 14. Physical Polymer
- 15. Mathematical Modeling in Physical Chemistry
- 16. Mechanisms of Inorganic Reaction.
- 17. Chelatimetry.
- 18. Elucidation of Molecular Structure
- 19. Advanced Electrochemistry.
- 20. Studies on the Group Theory
- 21. German Language.

Prof. Dr. Mohamed A. Badawy

Chairman of Chemistry Repartment. Faculty of Science- Cairo University.

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Wael Gaber El-Sayed