

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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B11 E10

**CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF
NEW ION- SELECTIVE ELECTRODES FOR SOME
PHARMACEUTICAL COMPOUNDS**

M. Sc. Thesis

By

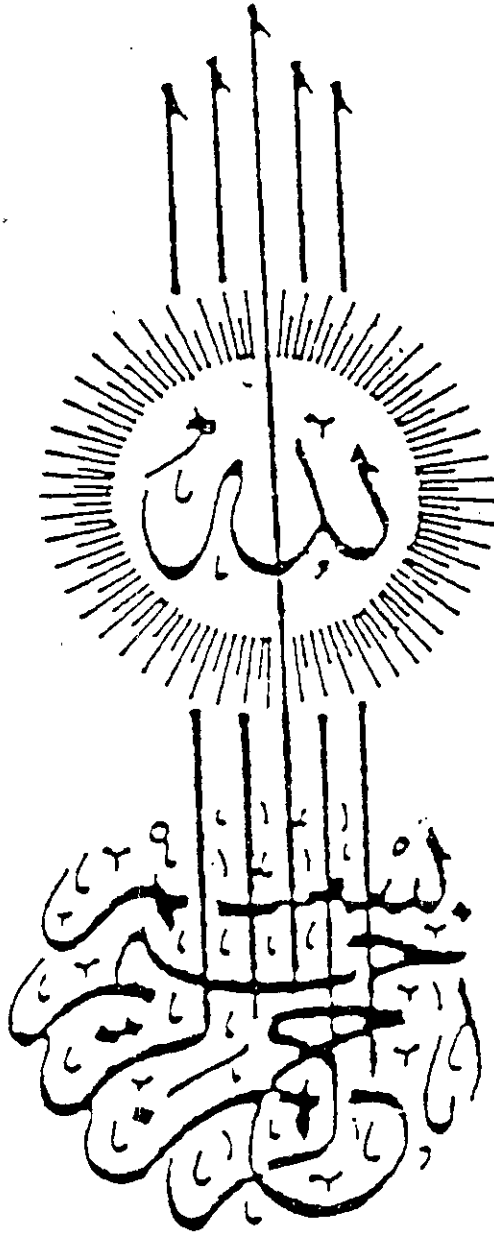
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B. Sc., Chemistry (1990)

Submitted To

**CAIRO UNIVERSITY
FACULTY OF SCIENCE
CHEMISTRY DEPARTMENT**

In Partial Fulfillment of the Requirement for the Degree of
Master of Science
(Analytical Chemistry)

2007



وَعَلَّمَكَ مَا لَمْ تَكُنْ تَعْلَمُ وَكَانَ فَضْلُ اللَّهِ عَلَيْكَ عَظِيمًا

صدق الله العظيم

APPROVAL SHEET FOR SUBMISSION

Title of the M. Sc. thesis: CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF NEW ION-SELECTIVE ELECTRODES FOR SOME PHARMACEUTICAL COMPOUNDS

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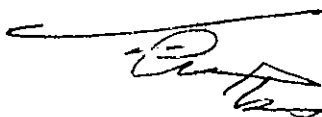
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ABSTRACT

Title of the thesis: CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF NEW ION-SELECTIVE ELECTRODES FOR SOME PHARMACEUTICAL COMPOUNDS

Name of the candidate: ALAA ELSAYED MOHAMAD NASR ELDIN

Degree: M. Sc., Faculty of Science, Cairo University, 2007.

The present work comprises the determination of the pharmaceutical compounds Amprolium and Metoclopramide in both the pure form and in the formulated pharmaceutical preparations using the standard additions, potentiometric titration methods and flow injection analysis (FIA) conditions. Construction and performance of ion-selective electrodes of C-paste types based on ion-associates of amprolium with phosphotungstate and metoclopramide with tetraphenylborate ions have been investigated. The effect of pH of the test solutions, temperature and time on the electrodes performance are studied. The electrodes are highly selective for the drugs with respect to several inorganic cations, sugars and some amino acids.

Key words: Pharmaceutical compounds, Amprolium hydrochloride, Metoclopramide hydrochloride, FIA, Potentiometry, Ion-selective electrodes.

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ACKNOWLEDGMENT

First and foremost thanks are due to God, the most beneficent, unlimited and continuous blessing on me, and for all gifts he gave to me.

I would like to express my deep thanks and full gratitude to

Prof. Dr. A. L. El-Ansary, Professor of Inorganic and Analytical Chemistry. Chemistry Department, Faculty of Science, Cairo University, for suggesting the problem, supervision, valuable guidance, continuous encouragement and helpful comments throughout the present work.

Special thanks to **Prof. Dr. Y. M. Issa**, Professor of Analytical Chemistry, for his interest and fruitful assistance in preparing this thesis.

My deepest gratitude to all colleagues and staff members of the Chemistry Department, Faculty of Science, Cairo University.

The Author

Alaa El-Sayed Nasr El-Din

To My Parents

For their great love they gave to me

To My Wife

*For her encouragement, help and
infinite love
which I can't forget*

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