

Analytical studies on the reaction of some antifungal drugs

Presented by

Nehad Abdel-Hafeez Mohamed
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(M.Sc Degree, Analytical Chemistry 2006)

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Name of candidate: Nehad Abdel-Hafeez Mohamed Abdel-Mawgoud

This thesis has been approved for submission by the supervisors:

1- **Prof. Dr.** Faten Ahmed F. Nour El-Dien

Professor of Analytical Chemistry, Chemistry Department, Faculty of Science, Cairo University.

Signature:

2- **Prof. Dr.** Gehad Genidy Mohamed

Professor of Inorganic Chemistry, Chemistry Department, Faculty of Science, Cairo University.

Signature:

3- **Dr.** Shaban Mohamed Khalil

National Organization for Drug Control and Research.

Signature:

Prof. Dr. Mohamed M. Shoukry

**Chairman of Chemistry Department
Faculty of Science, Cairo University.**

ABSTRACT

Name: Nehad Abdel-Hafeez Mohamed Abdel-Mawgoud.

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spectrophotometric determination of miconazole (MCNZ), tioconazole (TCNZ) and clotrimazole (CLMZ) drugs in pure and pharmaceutical preparations through the ion-pair formation reaction with bromocresol purple (BCP), bromocresol green (BCG) and Eriochrome cyanine R (ECR) reagent is described.

Also Solid state investigation of the metal complexes of MCNZ, TCNZ and CLMZ drugs has been carried out to investigate the coordination behavior of the drugs with different coordination sites, toward some bi and trivalent metal ions like Mn(II), Fe(III), Ni(II), Co(II), Cu(II), Cr (III) and Zn(II).

Key Words: Pharmaceutical preparation; spectrophotometry; miconazole, tioconazole and clotrimazole determination; bromocresol purple, bromocresol green, eriochrome cyanine R, metal complexes, elemental analyses, IR, Thermal analyses, biological activity.

Prof. Dr. Mohamed M. Shoukry

**Chairman of Chemistry Department
Faculty of Science, Cairo University**

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