



College of Women for Arts, Science and Education
Chemistry Department

"Synthesis and Characterization of Some lanthanide Complexes and its Application in the Determination of Some Doping Drugs"

A Thesis

Submitted for the Degree of Doctor of Philosophy of Science.

(Inorganic and Analytical Chemistry)

Presented by

Sheta Mohamed Sheta

B. Sc. General Chemistry (2004)

M.Sc. (Inorganic, Physical, Analytical Chemistry) (2010)

Supervised By

Prof. Dr. Mona Abd Elaziz Ahmed

Professor of Analytical Chemistry

Prof. Dr. A. B. Farg

Professor of Analytical Chemistry

Prof. Dr. Mokhles M. Abd-Elzaher

Professor of Inorganic Chemistry

Dr. Mohamed Said Attia

Assit. Prof. of Analytical Chemistry

Dr. Ahmed Osman Yossuf

Assit. Prof. of Analytical Chemistry

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Approval Sheet

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Approved by:

1. Prof. Dr. Ragaa El Sheikh Shoheib

Professor of Analytical Chemistry - Faculty of Science – Elzakazik University

2. Prof. Dr. Magda Ali Abd Elaziz Akl

Professor of Analytical Chemistry - Faculty of Science – Mansoura University

3. Prof. Dr. Mona Abd Elaziz Ahmed

Professor of Analytical Chemistry - College of Women for Arts, Science and Education, Ain Shams University

4. Prof. Dr. Mokhles M. Abd-Elzaher

Professor of Inorganic Chemistry, National Research Centre.

Approval stamp

/ / 2015

Approval of Faculty Council

/ / 2015

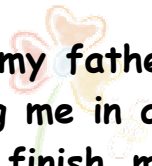
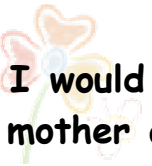
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DEDICATION



I would like to dedicate this thesis to my father and mother and thank them for their helping me in all household matters and encouraging me to finish my studies. Also I would like to dedicate this thesis to my sisters and brothers and thank them for the support and love along the way and for convincing me of the value of education. Finally, I would like to dedicate this thesis to my Wife, Asmaa, and thankful for her love, patience, and understanding me, and to my loving daughter, Rawan Sheta, Logain Sheta, Rattal Sheta whose keep me happy all the time.



Sheta Mohamed Sheta





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Approved

1. Prof. Dr. Mona Abd Elaziz Ahmed

Professor of Analytical Chemistry - College of Women for Arts, Science and Education, Ain Shams University

2. Prof. Dr. Mokhles M. Abd-Elzaher

Professor of Inorganic Chemistry, National Research Centre.

3. Prof. Dr. A. B. Farag

Professor of Analytical Chemistry - Faculty of Science – Helwan University

4. Dr. Mohamed Said Attia

Assit. Prof. of Analytical Chemistry - Faculty of Science – Ain Shams University

5. Dr. Ahmed Osman Yossuf

Assit. Prof. of Analytical Chemistry - Faculty of Science – Ain Shams University

APPROVED

*Head of Chemistry Department
Prof. Dr.*



QUALIFICATIONS



Student Name: Sheta Mohamed Sheta Mohamed

Scientific Degree: M.Sc. (Inorganic, Physical and Analytical Chemistry)

Department: Chemistry

Name of Faculty: Faculty of Science

University: Helwan University

B.Sc. Graduation Date: May 2004

M.Sc. Graduation Date: 2010





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Sheta Mohamed Sheta











Aim of the work



This thesis aims to synthesis and characterize some novel lanthanide complexes (Europium - Terbium - Samarium); and also to study their applications in determination of some doping drugs (such as testosterone, hydrochlorothiazide) using a simple, fast and sensitive Spectrofluorimetric analytical technique. The proposed method is successfully validated for the routine analysis of these drugs in pharmaceutical formulations and biological fluids samples.



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