



شبكة المعلومات الجامعية

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شبكة المعلومات الجامعية

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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
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15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة



بالرسالة صفحات لم

ترد بالاصل



589.3

*Studies on Exocellular Polysaccharides Produced by some
Cyanobacterial Species with Special Reference to their
Possible Applications*

Thesis

Submitted to the Botany Department, Faculty of Science

Tanta University

For

The degree of Doctor of Philosophy in Botany (Phycology)

By

Gehan Ahmed Hassan Ismail

M. Sc. in Botany (Phycology)

2001

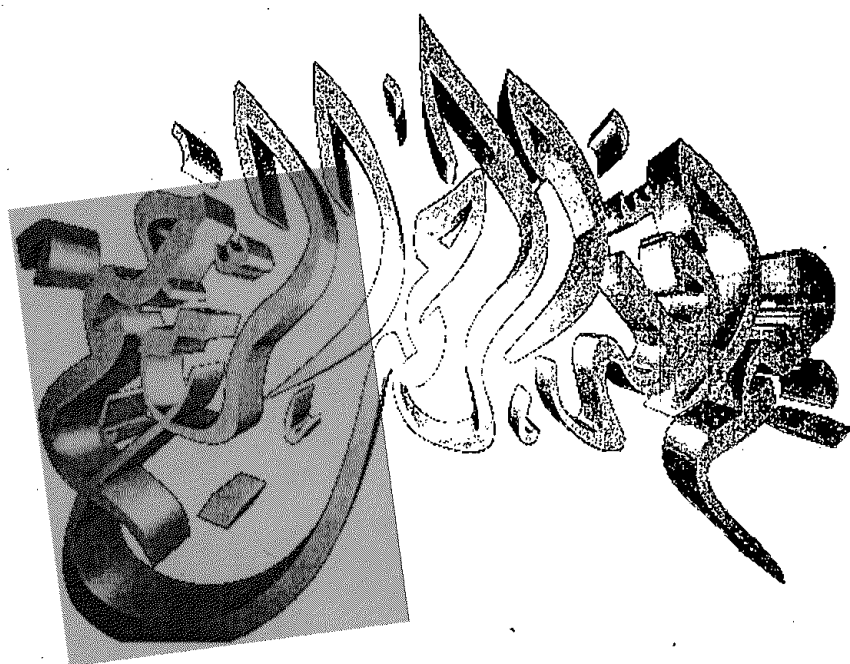
Botany Department

Faculty of Science

Tanta University

2006

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Dedication

To all whom I love and they love me

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*This thesis has not been previously
submitted for any degree at this or any
other university.*

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List of Abbreviations

EPS: External exopolysaccharides investments produced by bacterial and cyanobacterial strains, with three distinct types namely sheaths, capsules and slimes.

RPS: Aliquots of the polysaccharidic material of both capsules and slimes released as water soluble material into the surrounding culture medium during growth, causing a progressive increase of its viscosity.

IR: Infrared an analysis spectroscopy.

^1H NMR: Proton nuclear magnetic resonance spectroscopy.

HPLC: High performance liquid chromatography.

$\eta_{\text{rel.}}$: Relative viscosity.

$\eta_{\text{sp.}}$: Specific viscosity.

η : Intrinsic viscosity.

