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K Sreevani [1*], **VV Anierudhe**[2]

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Citation: Sreevani K, et al (2021) Synthesis and Characterization of Molybdenum Oxide Nanoparticles by Green Method J JBiotechnol Biomater 11: 300

Abstract

In the present study, the synthesis of molybdenum oxide nanoparticles is performed by the reduction of Ammonium Molybdate with Citrus Sinensis leaves extract. An absorption peak of the molybdenum oxide in the range of 700 - 800 nm range using UV - Vis spectroscopy. FTIR study reveals the presence of flavonoids which acts as a reducing agent. The diffraction studies reveal its crystallinity with a cubical shape and 16 nm size. The zeta potential which is used to characterize the metal nanoparticles has been studied. The antifungal property of the nanoparticles has been studied and a plot for disease index has been discussed. Thus, this natural method of synthesizing the molybdenum oxide can go a long way in biophysics application.

Key words:

Itggp u{pvjguku. oqn{dfgpwo qzkfg. pcpqrctvkengu. hncxqpqkfu. ecrrkpi cigpv. tgfwekpi cigpv. cpvkhwpicn

Introduction

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Role of flavonoids as a secondary metabolite

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Significance of molybdenum in plant growth

Tgfwekpi cigpvu htqo rncpv gzvtcev fqpcvg gngevto grg nO gngevqy vj

pcpqrctvkengu ecp dg ocfg vq cduqtd. cu ocp{ fghkekgpe{ fkuqtfgtu ecp

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1

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Wavelength
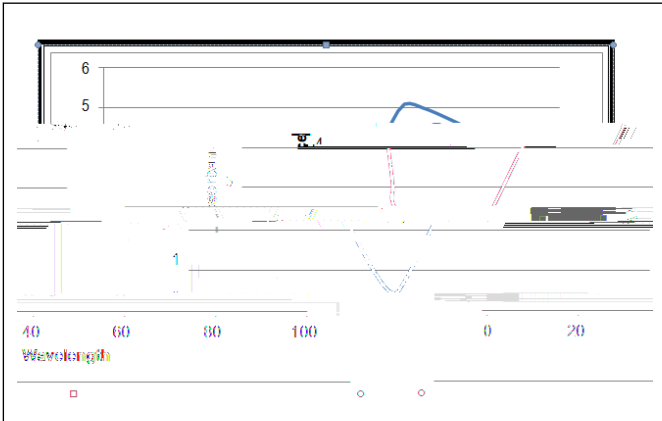
Figure 2: WX óXku urgevtc qh oqn{dfgpwo qzkfg PRu0

Figure3: HVKT urgevtwo qh vjg tgcevkqp uqnxgpv0

Xrd studies

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Vjku... xcvgf d{ uwdlgevkpi vq ocipgvke hkgnf0 Fkugcug
kpfg... gf hqt fkhhgtgpv kpewdcvkqp rgtkqfu tcpikpi htqo
3 y... Vjku 3jkVk]rÐrÑVjVjku