



Higher and Technical Education Department, Government of Maharashtra

Government Science College, Gadchiroli

in association with

**The Indian Science Congress Association,
Amravati Chapter**

Organizing

**NATIONAL SCIENTIFIC CONFERENCE ON
MULTIDISCIPLINARY RESEARCH**

2022

APRIL 07- 08

Focal Theme: Sustainable Development with Women Empowerment

BOOK OF ABSTRACTS

NSCMR 2022

07th - 08th April 2022



"Inspiring Young Researchers for Tomorrow's Science"



**Women
Empowerment**



Department of
SCIENCE & TECHNOLOGY

**Sustainable
Development**



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NATIONAL SCIENTIFIC CONFERENCE ON MULTIDISCIPLINARY RESEARCH (NSCMR – 2022)

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Hosted by

Government Science College, Gadchiroli

Website <http://www.gscgadchiroli.ac.in> Email prigscgadchiroli@gmail.com

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Synthesis and characterization of Host-Guest inclusion complex between β -Cyclodextrin and Schiff's base

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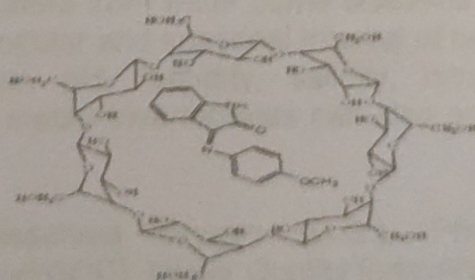
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In the present study, the inclusion complex of Isatin schiff base (Guest) with β -cyclodextrin (Host) were prepared. The synthesis of host-guest inclusion complex is carried out by a co-precipitation method. The guest molecule were synthesized by condensation reaction between Isatin and p-Anisidin and were characterized using Mass spectroscopy, FT-IR and ¹H-NMR. The mass spectra of the guest molecule shows base peak at m/z 253, IR stretching frequency for azine (C=N) linkage at 1731 cm^{-1} and ¹H-NMR peaks having chemical shift, δ values between $\delta = 3.74$ -8.87 ppm. These spectroscopic studies is in the good agreement with the structure of synthesized guest molecule. The IR and NMR spectra of Isatins Schiff base is slightly altered on forming inclusion complex with β -Cyclodextrin ring.

Keywords: Isatin Schiff base, β -Cyclodextrin , Inclusion complexes, Co-precipitation method.



Inclusion complex

Ghatbandhe, N. M. Meshram P., Satpute G. (2022) Synthesis and characterization of Host-Guest inclusion complex between β -Cyclodextrin and Schiff's base. In book of abstracts, National Scientific Conference on Multidisciplinary Research organized by Government Science College, Gadchiroli in association with Indian Science Congress Association Amaravati Chapter on 7th and 8th April 2022 p. 34



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in association with
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organized Two Days

"National Scientific Conference on Multidisciplinary Research (NSCMR 2022)"
Focal Theme: Sustainable Development with Women Empowerment

Certificate

This is to certify that Dr./Mr./Mrs. Nitin Murlidhar Ghatbandhe of
D. K. Mahila Mahavidyalaya Kurkheda, dist: Gadchiroli has
participated/ presented a poster/ delivered an oral presentation in the Two Day
"National Scientific Conference on Multidisciplinary Research (NSCMR 2022)"
held at Government Science College, Gadchiroli on 07th and 08th April 2022.

Abdul Chaudhary
Organizing Secretary

Dr. Atul Bodkhe
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