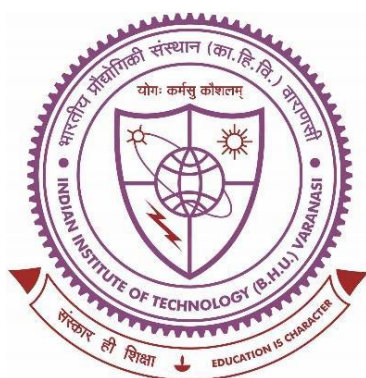


Identification of Auxochrome Units with a Site for the Attachment of Recognition Moiety for Detection of Biomolecules



Thesis submitted in partial fulfilment for the
Award of Degree

Doctor of Philosophy

By

Samarpita Das, M. S. (Pharm)

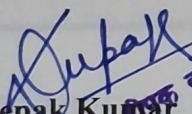
**Department of Pharmaceutical Engineering & Technology
Indian Institute of Technology
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Varanasi-221005, India**



CERTIFICATE

It is certified that the work contained in the thesis titled “**Identification of Auxochrome Units with a Site for the Attachment of Recognition Moiety for Detection of Biomolecules**” by **Ms. Samarpita Das** has been carried out under my supervision and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.


Dr. Deepak Kumar
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Date: 17/10/2024

Place: IIT (BHU), Varanasi



DECLARATION BY THE CANDIDATE

I, **Samarpita Das**, certify that the work embodied in this Ph.D. thesis is my own bona fide work and was carried out by me under the supervision of **Dr. Deepak Kumar** from **January 2021 to June 2024** at the **Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi**. The matter embodied in this Ph.D. thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credit to the research workers wherever their works have been cited in my work in this thesis. I further declare that, I have not wilfully copied any other's work, paragraphs, text, data, results, etc. reported in the journals, books, magazines, reports, dissertations, theses, etc., or available on websites and have not included them in this Ph.D. thesis and have not cited as my own work.

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Samarpita Das
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CERTIFICATE BY THE SUPERVISOR(S) AND HEAD OF THE DEPARTMENT

It is certified that the above statement made by the student is correct to the best of our knowledge.

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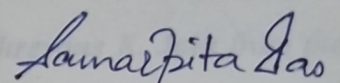
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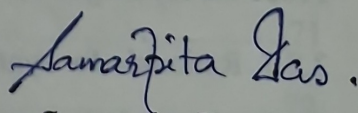
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