This is to certify that this project work on the topic "SYNTHESIS OF ENAMINONES" was carried out at Department of studies in Chemistry, Mangalore University, Mangalagangothri by Mr. Adarsh V. Nayak, a student of M.Sc. (IV Semester) Organic Chemistry, in partial fulfilment of the requirements for the award of Degree of Master of Science in Organic Chemistry, Mangalore University, Mangalagangothri.

This work was carried out by the candidate under the guidance of Dr. M. R. Maddani, Department of Chemistry, Mangalore University, Mangalagangothri.

Dr. M. R. Maddani

Internal Guide

Department of Chemistry

Mangalore University

Mangalagangothri -574199

Prof. Vishalakshi B

Chairperson

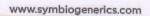
Department of Chemistry

Mangalore University

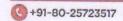
Mangalagangothri -574199

CHAIRPERSON

Department of Studies in Chemistry Mangalore University Mangalagangothri - 574 158









symbio@symbiogenerics.com

R&D Centre: 2nd Phase, No. R23, KSSIDC Industrial Estate, Bommasandra Industrial Area, Bommasandra Jigani Link Rd, Yarandahalli, Bengaluru - 560099

#### Certificate of Project Completion

Ref: Symbio Generrics R&D

Date: 02/05/2024

I hereby certify that the project work entitled "Synthesis of 3α,7β-dihydroxy-24-nor-5β-cholan-23-carboxamide" submitted by Ms. Akshatha Kumari who has successfully completed her research project at R&D center, Symbio Generics India Private Limited from 04/09/2023 to 06/10/2023.

Ms. Akshatha Kumari demonstrated significant enthusiasm and scientific acumen during this period. We found her sincere and hard working in her tenure. We fully appreciate her performance in every regard. We wish her all the best in her future endeavors.

Best Regards,

For Symbio Generrics India Private Limited

SYMBIO GENERRICS (I) PVT. LTD. R&D CENTER

2nd Phase, No. R23, KSSIDC Industrial Estate Bommasandra Jigani Link Road Yarandahalli, Bengaluru - 660099.

Registered Office: Symbio Generrics India Pvt. Ltd. Ground Floor, Wing - A,
DP - 21, Sidco Industrial Estate, Thirumazhisai, Chennai - 600 124 CIN: U74990TN2011PTC080853



#### Syngenta Biosciences Private Limited

Registered & Corporate Office Amar Paradigm, S.No. 110/11/3 Baner Road, Pune 411 045 Maharashtra, India.

Tel: +91 20 3069 9200 Fax: +91 20 3069 9480 www.syngenta.com

CIN: U24210PN2001PTC135949

Date: 25/10/2023

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Akshay Shetty (Register number: P05AZ22S104041) student from Mangalore University, Mangalagangothri has completed the project on "Synthesis of agrochemical intermediates" from 30<sup>th</sup> August to 13<sup>th</sup> October 2023 as a part of his academic curriculum.

We wish him all the success in his future endeavors.

# AVENTURA ORGANICA

No. R-116, KSSIDC Industrial Estate, Hebbal, Mysore-570016, India aventuraorganica@gmail.com; www.aventuraorganica.net Tel: 9343197971, 9886495008

#### CERTIFICATE

This is to certify that Mr. ANANTHESH HOLLA. K Reg No. P05AZ22S104057 has successfully completed the Industrial Project Work entitled "Synthesis of Some Organic Compounds" at AVENTURA ORGANICA, KSSIDC Industrial Estate, Hebbal, Mysore from 4th September 2023 to 30th September 2023.

This report can be submitted to the Department of Studies in Chemistry, Mangalagangothri, Mangalore University for the fulfillment of dissertation work.

For Aventura Organica

Authorized Signatory

0

0

AVENTURA ORGANICA No. R-116, KSSIDC Indi. Estate Hebbal, MYSORE-570 016 (T): 0821-3264446

# AVENTURA ORGANICA

No R-116, KSSIDC Industrial Estate, Hebbal, Mysore-570016, India aventuraorganica@gmail.com; www.aventuraorganica.net Tel: 9343197971, 9886495008

#### CERTIFICATE

This is to certify that Ms. ASHITHA. A.M Reg.No. P05AZ22S104074 has successfully completed the Industrial Project Work entitled "Synthesis of Some Organic Compounds" at AVENTURA ORGANICA, KSSIDC Industrial Estate, Hebbal, Mysore from 4<sup>th</sup> September 2023 to 30<sup>th</sup> September 2023

This report can be submitted to the Department of Studies in Chemistry, Mangalagangothri, Mangalore University for the fulfillment of dissertation work.

For Aventura Organica

**Authorized Signatory** 

AVENTURA ORGANICA No. R-116, KSSIDC Indl. Estato Hobbal, MYSORE-570 016 (T): 0821-3264446

#### Quadrivalent Labs Private Limited



09/12/2023

#### Certificate of Internship

This is to certify that Ms. Bhoomika V R (Reg.no: P05AZ22S104063), student from Department of Chemistry, Mangalore University, Mangalagangothri has completed the "Industrial training" during the period from 01/09/2023 to 14/10/2023 as a part of her academic curriculum.

She has shown keen interest in learning and her conduct was good during the training period.

Best wishes

Dr Vasudeva Kakrannaya

Director

Quadrivalent Labs Private Limited STEP-NITK, National Institute of Technology Karnataka (NITK) Surathkal, Mangaluru, Karnataka 575025, India info@quadrivalentlabs.com. www.quadrivalentlabs.com.





#### RALLIS INDIA LIMITED

#### CERTIFICATE

This is to certify that Mr. C.J Roshan Thomas pursuing his M.Sc Organic Chemistry at, Mangalore University, Konaje has successfully completed his dissertation as a part of internship program during 04/09/2023 to 04/10/2023 On "IDENTIFICATION, CHARACTERISATION AND QUANTIFICATION OF AZOXYSTROBIN AND DIFENOCONAZOLE TECHNICAL AND ANALYSIS OF AZOXYSTROBIN 18% + DIFENOCONAZOLE 12% SC PESTICIDE FORMULATION BY USING ADVANCED ANALYTICAL TECHNIQUES" at our organization.

During this event he is found to be regular and attentive. He has gained the knowledge on the use and operation of different analytical instruments viz.. HPLC, GC,GC-MS,LC-MS and autotitrator. He also learnt personal safety and safe handling of chemicals.

We wish him a successful career ahead.

Shanmukh K Patil

Head-Analytical R&D

Fot No 73/1C & 1D Byregowda Industrial Estate Sinjandhanagar Hespamahalli. Bangalore 560/091 fel 91 80 67/9 7600

Registered Office 23rd Floor Lodha Exclus. New Culle Parade. Off Lastern Lie way. Wadala Mumbai 400.037 Tel 91.22 6732 7400 website www.tallis.com Corporate Identity No. 1 36992MH1948PLC014083

A TATA Enterprise





#23, 2" Floor, 5" Cross, Chunchaghatta Main Road, Off Kanakapura Road Metro Station
Bengaluru - 560062
Website: www.vidhathriacademy.in | Email: contact@vidhathriacademy.in

# **CERTIFICATE**

This is to certify that Mr./Ms. CHANDRA HAS NARAYAN SHETTY

MANGALORE UNIVERSITY Has participated and successfully completed the

Advanced training cum internship program on

"Essentials of Synthesis to Chemical Industry"

conducted by this centre between 01, SEPTEMBER - 30, SEP. 2023

at M/S Onium Life Sciences / SudhiShubha Chemsynthene Ltd. / Br. Batavai Laboratories,

Bengaluru.

#### The major areas covered being:

- Separation techniques
- Understanding safety in chemical lab
- Planning single step and multi step synthesis
- Execution of the synthesis
- Isolation and characterization principles
- Report writing

Madana

Dr. Madhu Ganesh Founder-Director Mr. Shivsharan Revoore Operations Manager



#### **Quadrivalent Labs Private Limited**



09/12/2023

#### Certificate of Internship

This is to certify that Mr. Chandrashekhar (Reg.no: P05 AZ22S104070), student from Department of Chemistry, Mangalore University, Mangalagangothri has completed the "Industrial training" during the period from 01/09/2023 to 14/10/2023 as a part of his academic curriculum.

He has shown keen interest in learning and his conduct was good during the training period.

Best wishes

Dr Vasudeva Kakrannaya

Director

Quadrivalent Labs Private Limited STEP-NITK, National Institute of Technology Karnataka (NITK) Surathkal, Mangaluru, Karnataka 575025, India info@quadrivalentlabs.com. www.quadrivalentlabs.com.



# CSIR-NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY (NIIST)

MINISTRY OF SCIENCE AND TECHNOLOGY, GOVT OF INDIA

INDUSTRIAL ESTATE PO, PAPPANAMCODE, THIRUVANANTHAPURAM-695019

Email: hradniist@niist.res.in Tel: 0471 2515252



#### **HUMAN RESOURCE AND ACADEMIC DIVISION**

#### INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. DHEERAJ M. steent of Mangalore University, Mangalagangotri has successfully completed his Internship Programme from 04-09-2023 to 20-10-2023 under the guidance of Dr. K.V. Radhakrishnan at the CSIR-National Institute for Interdisciplinary Science and Technology Thiruvananthapuram.

Head, HRAD

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हों. यू. एस. हरीस Dr. U. S. HAREESH प्रधान, एसभारएडी / Head, HRAD के पर को कर करेंग करियों किए कर केरियों सकट CSIR katonaji institute for interdisciplinary Science an honlogy (NIST) १९४५ वर्षा

13-10-23

The state of the s

Guide of Host Institution Dr. K.V. Radhakrishnan Chief Scientist

(Office Seal)





+91-80-25723517



symbio@symbiogenerics.com

R&D Centre: 2nd Phase, No. R23, KSSIDC Industrial Estate, Bommasandra Industrial Area, Bommasandra Jigani Link Rd, Yarandahalli, Bengaluru - 560099

#### Certificate of Project Completion

Ref: Symbio Generrics R&D

Date: 02/05/2024

I hereby certify that the project work entitled "Synthesis of N-nitroso compounds" submitted by Mr. DIKSHITH K who has successfully completed his research project at R&D center, Symbio Generrics India Private Limited from 04/09/2023 to 06/10/2023.

Mr. DIKSHITH K demonstrated significant enthusiasm and scientific acumen during this period. We found him sincere and hard working in his tenure. We fully appreciate his performance in every regard. We wish him all the best in his future

Best Regards,

For Symbio Generrics India Private Limited

SYMBIO GENERRICS (I) PVT. LTD. R&D CENTER

2nd Phase, No. R23, KSSIDC Industrial Estate Bommasandra Jigani Liek Florid Yarandahalli, Bengaluru - 560050.

Registered Office: Symbio Generrics India Pvt. Ltd. Ground Floor, Wing - A, DP - 21, Sidco Industrial Estate, Thirumazhisai, Chennai - 600 124 CIN: U74990TN2011PTC080853

# Syngene

Syngene International Limited

Biocon Park SEZ, Bonimasandra IV Phase, Jigani Link Road, Bengaluru 560099, India. T +91 80 6775 8000 F +91 80 6775 8808 CIN: L85110KA1993PLC014937 www.syngeneintl.com

Date: 16 Oct 2023

#### INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Ms. FELCY SAVER DSOUZA (60000867), Pursuing MSc General Chemistry/Organic Chemistry with Department of Chemistry, Mangalore University has successfully completed her internship project titled

Coupling Of Alpha Halo Ketones With Boronic Acid"

In Syngene International Limited under the guidance of Jaison John, from 04 September 2023 to 13 October 2023.

We wish her the best for her future endeavours.

Yours faithfully, for Syngene International Limited,

Balaji Parthasarathy

General Manager - Human Resources





## HONEYCHEM PHARMA RESEARCH PVT. LTD.

No. C-179, 4th C. Main Road, Peenya Industrial Estate, Peenya, Bangalore-560058, Phone No. 08028368566, E mail: info@honeychempharma.com, www. Honeychempharma.com

Ref. No.: HCPL/TRI/72/2023

Date: 04.10.2023

#### Certificate of Internship

This is to certify that Ms. Hemavathi., M.Sc. Organic chemistry, student of Mangalore University, Mangalagangothri. Mangalore, has undergone internship programme at our centre successfully. As the part of the internship from 01st September of 2023 to 04st October of 2023.

Ms. Hemavathi, has undergone training at our Research and Development centre in Synthesis and characterization of Quetiapine related substance

- 1. During this period she learnt Synthesis of Quetiapine related substance
- 2. The above reaction Monitored by Thin layer chromatograph (TLC)
- 3. Calculation of moles Equivalent
- Synthesized Quetiapine related substance Isolation and purification by column chromatography.
- 5. The synthesized Quetiapine related substance products purity checked by HPLC.
- 6. The synthesized Quetiapine related substance characterized be LCMS and <sup>1</sup>H NMR
- 7. Handling of pH meter and calibration using different pH values
- 8. Handling of Analytical balance and daily calibration
- 9. Preparation different type of buffer solution for HPLC
- 10. Handling of HPLC and Sample Preparation
- 11. Handling of muffler France for estimation of residue on ignition (ROt)
- 12. Handling of Hot air oven for estimation of loss on drying (LOD)

During the internship, Ms. Hemavathi., was punctual, positive and performance oriented and completed all the activities/tasks assigned to her successfully. Her character and conduct found to be very good during internship at our centre.

We wish her all success in her career.

For Honeychem Pharma Research Pvt. Ltd





# HONEYCHEM PHARMA RESEARCH PVT. LTD.

No. C-17% 40° C. Muon Road, Premya Industrial Estate, Pennya Bangaiore 5600505, Prime No. 00022 160566, E. mail: info@fisoneychempharma.com, www. Hopeychempharma.com

Ref. No.: HCPL/TR1/73/2023

Date: 04.10.2023

## Certificate of Internship

This is to certify that Ms. Hrithika G., M.Sc. Organic chemistry, student of Mangalore University, Mangalagangothri, Mangalore, has undergone internship programme at our centre successfully. As the part of the internship from 01° September of 2023 to 04° October of 2023

Ms. Hrithika G., has undergone training at our Research and Development centre in "Synthesis and characterization of 3-Amino-6-chloro-N-(diaminomethylidene)-5-hydroxypyrazine-2-carboxamide hydrochloride". During this period she learnt the following area

- 1. How to Calculate mole Equivalent
- 2. How to start the reaction
- 3. How to monitor the reaction by TLC and reaction termination and workup
- 4. How to Purify synthesized compound by column chromatography
- 5. The synthesized products purity checked by HPLC.
- 6. The synthesized product characterized by LCMS and 'H NMR
- 7. Handling of pH meter and calibration using different pH values
- 8. Handling of Analytical balance and daily calibration
- 9. Preparation different type of buffer solution for HPLC
- 10. Handling of HPLC and Sample Preparation
- 11. Handling of muffler France for estimation of residue on ignition (ROI)
- 12. Handling of Hot air oven for estimation of loss on drying (LOD)

During the internship, Ms. Hrithika G., was punctual, positive and performance oriented and completed all the activities/tasks assigned to her successfully. Her character and conduct found to be very good during internship at our centre.

We wish her all success in her career.

For Honeychem Pharma Research Pvt. Ltd.

(Managing Director)

This is to certify that this project work on the topic 'KNORR PYRROLE SYNTHESIS' was carried out at Research Laboratory by Ms. Lakshmi Devindrappa Negalore, a student of M.Sc. (IV Sem.) Organic Chemistry, in partial fulfilment for the award of degree of Master of Science in Oraganic Chemistry, Mangalore University, Mangalagangothri.

The project work was carried out under the guidance of Dr. Boja Poojary, Senior Professor, Department of Chemistry, Mangalore University, Mangalagangothri.

Prof. Boja Poojary

Internal Guide

Department of Chemistry

Mangalore University

Mangalagangothri-574199

Prof. Vishalakshi B.

Chairperson

Department of Chemistry

Mangalore University

Mangalagangothri-574199

CHAIRPERSON
Department of Studies in Chemistry
Mangalore University

Mangalagangothri - 574 198

# AVENTURA ORGANICA

Research for excellence

No. R-116, KSSIDC Industrial Estate, Hebbal, Mysore-570016, India aventuraorganica@gmail.com; ww.aventuraorganica.net Tel: 9343197971, 9886495008

#### CERTIFICATE

This is to certify that **Mr. MANEESH KUMAR B.** Reg.No. P05AZ22S104072 has successfully completed the Industrial Project Work entitled "Synthesis of Some Organic Compounds" at AVENTURA ORGANICA, KSSIDC Industrial Estate, Hebbal, Mysore from 4<sup>th</sup> September 2023 to 30<sup>th</sup> September 2023.

This report can be submitted to the Department of Studies in Chemistry, Mangalagangothri, Mangalore University for the fulfillment of dissertation work.

For Aventura Organica

**Authorized Signatory** 

AVENTURA ORGANICA No. R-116, KSSIDC Indi. Estate Hebbal, MYSORE-570 016 (T): 0821-3264446





This is to certify that Mr. Manoj M pursuing his M.Sc Organic Chemistry at, Mangalore University, Konaje has successfully completed his dissertation as a part of internship program during 04/09/2023 to 04/10/2023 on "SYNTHESIS AND CHARACTERIZATION OF ESTER DERIVATIVES FROM DIFFERENT AROMATIC ACIDS" at our organization.

During this event he is found to be regular and attentive. He has gained the knowledge on the use of reaction setting up and monitoring the reaction by TLC, isolation and purification of organic compounds by recrystallization, column chromatography. He also learnt personal safety and safe handling of chemicals.

We wish him a successful career ahead.

Dr. A.S Paniraj

Head-Process Chemistry (R&D)



#23, 2™ Floor, 5™ Cross, Chunchaghatta Main Road, Off Kanakapura Road Metro Station Bengaluru - 560062 Website: www.vidhathriacademy.in | Email: contact@vidhathriacademy.in

# CERTIFICATE

This is to certify that Mr./Ms. NARAYAN SORESH NAIK MANGALORE ONLYERSITY Has participated and successfully completed the

Advanced training cum internship program on

"Essentials of Synthesis to Chemical Industry"

conducted by this centre between 01, SEP to 30, SEP 2023 at M/S Onium Life Sciences / SudhiShubha Chemsynthons Ltd. / Dr. Balavai Laboratories, Bengaluru.

### The major areas covered being:

- Separation techniques
- Understanding safety in chemical lab
- Planning single step and multi step synthesis
- **Execution of the synthesis**
- Isolation and characterization principles
- Report writing

Dr. Madhu Ganesh Founder-Director

Mr. Shivsharan Revoore **Operations Manager** 





91-80-25723517



symbio@symbiogenerics.com

R&D Centre: 2nd Phase, No. R23, KSSIDC Industrial Estate, Bommasandra Industrial Area, Bommasandra Jigani Link Rd, Yarandahalli, Bengaluru - 560099

#### Certificate of Project Completion

Ref: Symbio Generrics R&D

Date: 02/05/2024

I hereby certify that the project work entitled "synthesis of 3α,7α-dihydroxy-12keto-5β-cholanic acid" submitted by Mr. NISHANTH who has successfully completed his research project at R&D center, Symbio Generrics India Private Limited from 04/09/2023 to 06/10/2023.

Mr. NISHANTH demonstrated significant enthusiasm and scientific acumen during this period. We found him sincere and hard working in his tenure. We fully appreciate his performance in every regard. We wish him all the best in his future endeavors.

MANAZ Best Regards,

For Symbio Generrics India Private Limited

SYMBIO GENERRICS (I) PVT. LTD. **R&D CENTER** 

2nd Phase, No. R23, KSSIDC Industrial Estato Bommesandre Jigani Link Road Yarandahalli, Bengaluru - 560059.

Registered Office: Symbio Generrics India Pvt. Ltd. Ground Floor, Wing - A. DP - 21, Sidco Industrial Estate, Thirumazhisai, Chennai - 600 124 CIN: U74990TN2011PTC080853



Syngenta Biosciences Private Limited Registered & Corporate Office Amar Paradigm, S.No. 110/11/3 Baner Road, Pune 411 045 Maharashtra, India. Tel: + 91 20 3069 9200 Fax: + 91 20 3069 9480 www.syngenta.com CIN: U24210PN2001PTC135949

Date: 25/10/2023

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Pranam H R (Register number: P05AZ22S104050) student from Department of Organic Chemistry, Mangalagangothri, Mangalore University, has completed a project on "Study of methodologies for the synthesis of crop protection research intermediates and their characterization" from 01st September to 14th October 2023 as a part of h is academic curriculum.

Yours faithfully,

Syngenta Biosciences Pvt. Ltd.

PRITI SINGH

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Priti Singh Head Human Resources, India



#23, 2" Floor, 5" Cross, Chunchaghatta Main Road, Off Kanakapura Road Metro Station Bengaluru - 560062 Website: www.vidhathriacademy.in | Email: contact@vidhathriacademy.in

# CERTIFICATE

This is to certify that Mr./Ms. PRASILLA

MANGALORE UNIVERSITY Has participated and successfully completed the

Advanced training cum internship program on

"Essentials of Synthesis to Chemical Industry"

conducted by this centre between OI, SEP - 30, SEPTEMBER 2023 at M/S Onium Life Sciences / SudhiShubha Chemsynthons Ltd. / Br. Batavai Laboratorico,

Bengaluru.

### The major areas covered being:

- Separation techniques
- Understanding safety in chemical lab
- Planning single step and multi step synthesis
- **Execution of the synthesis**
- Isolation and characterization principles
- Report writing

Medling Skamit Dr. Madhu Ganesh Founder-Director

Mr. Shivsharan Revoore **Operations Manager** 





REF: HRD/Let-Trainee DATE: 13th October, 2023

#### Anthem Biosciences Pvt. Ltd.

49, F1 & F2, Canara Bank Road, Bommasandra Industrial Area, Phase - I Bommasandra, Bengaluru - 560 099 Karnataka, India

CIN: U24233KA2006PTC039703 Tel: +91 80 6672 4000 Fax: +91 80 6672 4020 www.anthembio.com

#### To Whomsoever It May Concern

#### Certificate of Project Completion

I hereby certify that the thesis entitled "Synthesis and characterization of "7-(pyridin-3-yl)[1,2,4]triazolo[1,5-a]pyridin-2-amine" submitted by Mr. Prathvik J Poojari (Reg No: P05AZ22S104044 of Mangalore University) who has successfully completed his project training at Chemistry Lab department of our organization from 04th September, 2023 to 13th October, 2023 under the guidance of Mr. Manikandan N.

He demonstrated significant enthusiasm and scientific acumen during this period. We found his sincere and hardworking during his tenure. We fully appreciated his performance in every regard. We wish him all the best in his future endeavors.

Best Regards

For ANTHEM BIOSCIENCES PVT, LTD

Manikandan N

Dy. Manager II - Chemistry Lab

This is to certify that this project work on the topic "IODINE AND DMSO MEDIATED CHEMOSELECTIVE SYNTHESIS OF 2,5-DISUBSTITUTED OXAZOLES FROM ARYLMETHYL KETONE VIA CATABOLISM AND RECONSTRUCTIVE PROPERTIES OF AMINO ACID" was carried out at Department of studies in Chemistry, Mangalore University, Mangalagangothri by Mr. Praveen R., a student of M. Sc. (IV Semester) Organic Chemistry in partial fulfillment of the requirements for the award of Degree of Master of science in Organic Chemistry of Mangalore University.

This project work was carried out under the guidance of Prof. Jagadeesh Prasad D. Department of Chemistry Mangalore University, Mangalagangothri.

Prof. Jagadeesh Prasad D.

Internal Guide

Department of Chemistry

Mangalore University

Mangalagangothri-574199.

Prof. Vishalakshi B.

Chairperson

Department of Chemistry

Mangalore University

Mangalagangothri-574199.

Department of Studies in Chemistry Mangalore University Mangalagangothri - 574 198



Syngene International Limited Biocon Park SEZ, Bommasandra IV Phase, Jigani Link Road, Bengaluru 560099, India.

T +91 80 6775 8000 F +91 80 6775 8808 CIN: L85110KA1993PLC014937 www.syngeneintl.com

Date: 14 July 2023

#### INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Ms. PRERANA K A(60000868), Pursuing MSc General Chemistry/Organic Chemistrywith Department of Chemistry, Mangalore University has successfully completed her internship project titled

"Alpha Arylation Of (Hetero)Aliphatic Nitriles"

In Syngene International Limited under the guidance of Sivakrishna P, from 09 April 2023 to 13 October 2023.

We wish her the best for her future endeavours.

Yours faithfully, for Syngene International Limited,

Balaji Parthasarathy

General Manager - Human Resources





# Sequent

04th October 2023

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Prithviraj H a bonafied MSc student of Mangalore University, Mangalore bearing the Registration Number – P05AZ22S104076 has completed the Internship in our organization from 04th September 2023 to 04th October 2023.

During the tenure of his internship, we have found him attentive and hardworking.

We wish good luck for his future studies.

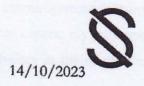
For Sequent Research Limited

Authorised Signatory

SeQuent Research Limited

Registered Office & Unit 1: # 120 A & B, Industrial Area, Belkempedy, New Mangelors - 575 011, India, Tel.: + 91 824 8611805

GST: 29AAKCS75380128 | CIN: U24232KA2007PLC042483 | www.sequent.in



This is to certify that this project work on the topic "Design and synthesis of Azo dyes for industrial applications" were carried out by Ms. Rakshita Mahabaleshwara Bhat, a student of M.Sc. (IV Semester) Organic Chemistry programme in partial fulfillment of the requirements for the award of Degree of Master of Science in Organic Chemistry, Mangalore University, Mangalagangothri.

This work was carried out by the candidate under the guidance of Dr. Momidi Bharath Kumar.

We wish you all the best for her future.

Dr. Bharath Kumar Momidi

Project Guide

SpecSyn Laboratories Pvt. Ltd

Hubli

# **COMPANY CERTIFICATE**



#23, 2" Floor, 5" Cross, Chunchaghatta Main Road, Off Kanakapura Road Metro Station Bengaluru - 560062

Website: www.vidhathriacademy.in | Email: contact@vidhathriacademy.in

# CERTIFICATE

This is to certify that Mr/Ms. RAMYA

of the Under-Graduate / Post-graduate Department of Chemistry / III SEM. of

MANGALORE UNIVERSITY Has participated and successfully completed the

Advanced training cum internship program on

"Essentials of Synthesis to Chemical Industry"

at M/S Onium Life Sciences / SudhiShubha Chemsynthons Ltd. / Dr. Batavai Laboratories,
Bengaluru.

### The major areas covered being:

- Separation techniques
- Understanding safety in chemical lab
- Planning single step and multi step synthesis
- Execution of the synthesis
- Isolation and characterization principles
- Report writing

Dr. Madhu Ganach

Dr. Madhu Ganesh Founder-Director Mr. Shivsharan Revoore Operations Manager







Date: 04/10/2023

#### CERTIFICATE

This is to certify that Ms. S SHRAVYA Reg No. P05AZ22S104075 from Chemistry Department, Mangalore University has completed her project work "SYNTHETIC STUDIES TOWARDS PYRIDOXAL OXIME" in ArkGen Pharma Private limited under the guidance of Mr. Murali S, R&D from 04-09-2023 to 04-10-2023.

The work included in this project work has not been submitted to any other institute or university for the award of any other degree or diploma.

For ARKGEN PHARMA PVT. LTD.

granz

Authorised Signatory
Dr. Sathya Prasanna
ArkGen Pharma Pvt Ltd
Plot No. 488B, Flat No. 303-304
VITC Model Export Bhavan
14th Cross, IV Phase, II Stage
Peenya Industrial Area, Bangalore - 58



Plot No. 488 Flat No. 303-304, 306, HI Floor, VITC Model Export Bhavan, 14th Cross, 4th Phase, Peenya Indl. Area, Bangalore-560 058.

Ph: (80)-4150 0424 www.arkgenpharma.com CIN No. U74900KA2014PTC075574



06th Oct 2023

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Sambrath G has successfully completed his project on SYNTHESIS AND CHARECTERIZATION OF Structurally Related Compounds of Timonium Metylsulfate, as part of his MSc requirement from Mangalore University, Mangalagangotri, Mangalore. Project work has been carried out from Sept 4th to Oct 6th 2023 at the R & D center of Flowchempharma Pvt Ltd., Bengaluru.

Wishing you all the best for his future carrier.

For Flowchempharma Pvt Ltd

Dr. Ramesha A. R

Director-Tech,

Flowchempharma Pvt Ltd

Email: dr.ramesha@flowchempharma.com

Ph:+919901834086

Flowchem Pharma Put Ltd Registered Office: HIG 2000 Ray House Yeldhanks New To

tusingi Park Hindupur Mandai Sri Sathya Sai Diatrict

This is to certify that this project work on the topic "COPPER CATALYSED C-C AND C-S BOND FORMATION REACTIONS" was carried out at Department of studies in Chemistry, Mangalore University, Mangalagangothri by Ms. Samrudhi Shetty, a student of M.Sc. (IV Semester) Organic Chemistry in partial fulfilment of the requirements for the award of Degree of Master of Science in Organic Chemistry, Mangalore University, Mangalagangothri.

This work was carried out by the candidate under the guidance of Prof. Jagadeesh Prasad D, Department of Chemistry, Mangalore University, Mangalagangothri.

Prof. Jagadeesh Prasad D.

Guide.

Department of Chemistry

Mangalore University,

Mangalagangothri.

Prof. Vishalakshi B.

Chairperson

Department of Chemistry

Mangalore University,

Mangalagangothri.

CHAIRPERSON
Department of Studies in Chemistry
Mangalore University
Mangalagangothri - 574 188



06th Oct 2023

#### **TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Shrinivas M. Margennavar has successfully completed his project on SYNTHESIS AND CHARECTERIZATION OF Structurally related compounds of Mexiletine, as part of his MSc requirement from Mangalore University, Mangalagangotri, Mangalore. Project work has been carried out Sept 4th to Oct 6th 2023 at the R & D center of Flowchempharma Pvt Ltd., Bengaluru.

Wishing you all the best for his future carrier.

For Flowchempharma Pvt Ltd

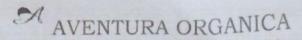
Dr. Ramesha A. R

Director-Tech,

Flowchempharma Pvt Ltd

Email: dr.ramesha@flowchempharma.com

Ph:+919901834086



No. R-116, KSSIDC Industrial Estate, Hebbal, Mysore-570016, India aventuraorganica@gmail.com; www.aventuraorganica.net Tel: 9343197971, 9886495008

#### CERTIFICATE

This is to certify that **Mr. T.N. LAKSHMINARAYANAN BHAT**Reg.No. P05AZ22S104066 has successfully completed the Industrial
Project Work entitled "Synthesis of Some Organic Compounds" at
AVENTURA ORGANICA, KSSIDC Industrial Estate, Hebbal, Mysore from
4<sup>th</sup> September 2023 to 30<sup>th</sup> September 2023.

This report can be submitted to the Department of Studies in Chemistry, Mangalagangothri, Mangalore University for the fulfillment of dissertation work.

For Aventura Organica

**Authorized Signatory** 

AVEN RA ORGANICA
No. R-116, KS-STOC Indi. Estate
Hebbal, MYSORE 016
(T): 0821-3264-48



Date: 13/10/2023

#### CERTIFICATE

This is to certify that V N Smitha studying in M.Sc. II semester (Department of Chemistry) at Mangalore University, Mangalagangothri, has satisfactorily undergone practical training on, "SYNTHESIS AND CHARACTERIZATION OF VARENICLINE IMPURITIES" at Apotex Pharmachem India Private Limited, Bommasandra Industrial area, Bangalore, from 04/09/2023 to 13/10/2023.

Dr. Shreenivasa Murthy

General Manager, Research and Development

Apotex Pharmachem India Private Limited,

Bengaluru, India.

Apotex Pharmachem India Pvt. Ltd.,
Plot No 1A. Bommasandra Industrial Area, 4" Phase, Jigani Link Road
Bangalore 560099, Tel: +91 80 2289 1000
CIN U24231KA2003PTC032104

www.apotex.com



REF: HRD/Let-Trainee DATE: 13th October, 2023

#### **Anthem Biosciences Pvt. Ltd.**

49, F1 & F2, Canara Bank Road, Bommasandra Industrial Area, Phase -Bommasandra, Bengaluru - 560 099 Karnataka, India

CIN: U24233KA2006PTC039703

Tel: +91 80 6672 4000 Fax: +91 80 6672 4020 www.anthembio.com

### To Whomsoever It May Concern

### **Certificate of Project Completion**

I hereby certify that the thesis entitled "Synthesis and characterization of "6-(pyridin-3-yl)[1,2,4]triazolo[1,5-a]pyridin-2-amine" submitted by Mr. Varshith (Reg No: P05AZ22S104042 of Mangalore University) who has successfully completed his project training at Chemistry Lab department of our organization from 04th September, 2023 to 13th October, 2023 under the guidance of Mr. Manikandan N.

He demonstrated significant enthusiasm and scientific acumen during this period. We found his sincere and hardworking during his tenure. We fully appreciated his performance in every regard. We wish him all the best in his future endeavors.

Best Regards

For ANTHEM BIOSCIENCES PVT. LTD

Manikandan N

Dy.Manager II – Chemistry Lab

· Jani cendan

This is to certify that this project work on the topic "ELEMENTAL SULFUR MEDIATED OXIDATIVE SYNTHESIS OF KETOTHIOAMIDES FROM ARLY METHYL KETONES USING DMF AND COPPER MEDIATED SYNTHESIS OF 1,2,4-TRIAZOLES" was carried out at Department of studies in Chemistry, Mangalore University, Mangalagangothri by Mr. Vikesh, a student of M.Sc. (IV Semester) Organic Chemistry in partial fulfilment of the requirements for the award of Degree of Master of Science in Organic Chemistry, Mangalore University, Mangalagangothri.

This work was carried out by the candidate under the guidance of Prof. Jagadeesh Prasad D, Department of Chemistry, Mangalore University, Mangalagangothri.

Prof. Jagadeesh Prasad D Internal Guide Department of Chemistry Mangalore University Mangalagangothri-574199. Prof. Vishalakhi B. V
Chairperson
Department of Chemistry
Mangalore University
Mangalagangothri -574199.

Bepartment of Studies in Chamistry Mangalore University Mangalogangothri - 574 155





# ArkGen Pharma Private Limited

Date: 04/10/2023

# CERTIFICATE

This is to certify that Mr. VIKRAM Reg No. P05AZ22S104040 from Chemistry Department, Mangalore University has completed his project work "SYNTHETIC STUDIES ON DIETHYL ACETAMIDOMALONATE" in ArkGen Pharma Private limited under the guidance of Mr. Murali S, R&D from 04-09-2023 to 04-10-2023.

The work included in this project work has not been submitted to any other institute or university for the award of any other degree or diploma.

FOR ARKGEN PHARMA PVT. LTD.

more

Authorised Signatory
Dr. Sathya Prasanna
ArkGen Pharma Pvt Ltd
Plot No. 488B, Flat No. 303-304
WITC Model Export Bhavan
14th Cross, IV Phase, II Stage
Peenya Industrial Area, Bangalore - 58

