

CERTIFICATE

This is to certify that the work presented in the project dissertation entitled "**Studies on Design and Synthesis of 1,2,4- Oxadiazole Benzoether Derivatives**" has been successfully completed by Mis.Akshatha (M.Sc Organic Chemistry, Mangalore University) in R&D, Lab operation, Merck India (Legacy Sigma-Aldrich) Bommasandra Industrial Area Phase 1, Bangalore under the guidance of **Gururaj Shivashimpi**.



Dr. Ravindra V. Singh

(Dy. General Manager)



Biocon Limited
20th KM, Hosur Road,
Electronic city,
BANGALORE 560100,
India

www.biocon.com

BL/HRD/CERT/P002186

Date : 12/07/2018

CERTIFICATE

This is to certify that, Ms. ANUSHA has successfully completed her Internship at our QC SMALL MOLECULE API department from 11/06/2018 to 12/07/2018 in Biocon Limited.

We wish her every success in all her endeavors.

A handwritten signature in black ink, appearing to read 'Pallavi G. G.', written over a horizontal line.

Human Resources Department
Biocon Limited

CERTIFICATE

Awarded

to

ANUSHA SHETTY

of

Mangalore University Mangalagangothri.

*For Successful Completion Of Internship Training In
Quantitative And Qualitative Analysis of Sorbital Solution
70% Along With Other Pharma and Food Products.*

From

08/06/2018 to 04/07/2018



Gautham.H
04/07/2018
General Manager

Auriga Research Private Limited.

(Formerly Auriga Research Ltd)

No. 136, 6th Cross, 2nd Stage, Yeshwanthpur Industrial Suburb, Bangalore-560 022.

Ph : 080-28396878. E-mail : admin@aurigaresearch.com. Website : www.aurigaresearch.com

Registered Office : Auriga Research Private Limited

3/15, Kirti Nagar, Industrial Area, New Delhi-110015. CIN : U74899DL1994PTC063731



NJD/HR/PTC/2018-19/23

July 27, 2018

TO WHOMSOEVER IT MAY CONCERN

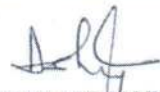
This is to certify that Ms. Archana Hoode, D/o Sharaschandra Hoode, Reg no: 175125904, pursuing MSc Organic Chemistry in Mangalore University - Mangalagangothri, has successfully completed her Project and Internship in "Characterization of Active Pharmaceutical Drug - Irbesartan By HPLC And GC Method" in our Organization from 11th June 2018 to 09th July 2018.

She has completed the Project and Internship under the guidance of Mr. Raghavender Rao Desai, Associate Head- Analytical (API).

During this period Ms. Archana Hoode has shown keen interest and completed the Project and Internship successfully.

We wish her success in future endeavors.

for JUBILANT GENERICS LIMITED

 27/07/18
SUBRAHMANYA A
DEPUTY GENERAL MANAGER - HR

A Jubilant Pharma Company

OUR VALUES



Jubilant Generics Limited
Plot No. 18, 56, 57 & 58
KADB Industrial Area, Nanjangud-571 302
Mysore, Karnataka, India
Tel: +91 8221 228402-8
<http://www.jubilantpharma.com>

Corporate Office:
I-A, Sector 16-A
Noida-201 301, UP India
Tel: +91 120 2516601-11
<http://www.jubilantpharma.com>

Regd. Office:
I-A, Sector 16-A
Noida-201 301, UP India
CIN: U24100UP2013PLC0



THE WESTERN INDIA PLYWOODS LTD.

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Regd. Office BALIAPATAM, KERALA, INDIA



Tel : 2778151 (4 Lines), Fax : 0497 2778181

E-mail : westernply@gmail.com / mail@wipitd.in

Website : www.wipitd.in CIN-L20211 KL 1945PLC001708

22-04-2019

CERTIFICATE

This is to certify that **Ms. ARCHANA RAJ.P.P.**, M.Sc. Organic Chemistry, Student of Mangalore University, Mangalagangothri has carried out Project Work in the Laboratories of our Research & Development Division under the guidance of Mr.K.Vijayaraghavan, Executive,R&D Division, on "**POTENTIAL OF PAPERMILL SLUDGE AND ITS ASH FOR THE REMOVAL OF PHENOL FROM IT'S AQUEOUS SOLUTION**" during the period June -July 2018.

For THE WESTERN INDIA PLYWOODS LTD.,


Dr.E.SREENIVASAN
TECHNICAL MANAGER
RESEARCH & DEVELOPMENT



SOLARA
Active Pharma Sciences

Communication Address :
Solara Active Pharma Sciences Limited
Plot Nos. 120A & B, 36, 120P & 121,
Industrial Area, Baikampady
New Mangalore - 575011, India
Tel : +91 824 2402100, Fax : +91 824 2402256

Ref: SSL/HR/ 368/ /2018

Date: 21-07-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Ashwitha. S. Salian**, student of M.Sc. Organic Chemistry, Mangalore University Mangalagangothri, has completed Project Work from June 11th 2018 to July 21st 2018 on the topic "**Synthesis of Schiff bases and other derivatives of Hydralazine and synthesis of Ethyl-4-amino-5-azido-3-pentylidene Ketal**" being part of her academic curriculum.

During the project she evinced keen interest in the said project and her conduct and character was good. She was very sincere, hardworking and diligent.

We wish her all success in her future endeavours.

For Solara Active Pharma Sciences Limited

Prakash
21/07/18

Dr. Prakash Karegoudar

Sr. Manager



SOLARA
Active Pharma Sciences

Communication Address :
Solara Active Pharma Sciences Limited
Plot Nos. 120A & B, 36, 120P & 121,
Industrial Area, Baikampady
New Mangalore - 575011, India
Tel : +91 824 2402100, Fax : +91 824 2402256

Ref: SSL/HR/ 3682 /2018

Date: 21-07-2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Disha. B**, student of M.Sc. Organic Chemistry, Mangalore University, Mangalagangothri, has completed Project Work from June 11th 2018 to July 21st 2018 on the topic "**Synthesis of 1,3-diphenyl-1H pyrazole-4-carbaldehyde by Vilsmeier- Haack reaction, its Chalcones and pyrazole Derivatives**" being part of her academic curriculum.

During the project she evinced keen interest in the said project and her conduct and character was good. She was very sincere, hardworking and diligent.

We wish her all success in her future endeavours.

For Solara Active Pharma Sciences Limited

Dr. Prakash Karegoudar

Sr. Manager



MICRO LABS LIMITED

PLOT NO. 43-45, K.I.A.D.B. JIGANI-ROMMASANDRA LINK ROAD, ANEKAL TALUK, BANGALORE 560 105
Tel : 08110-415647, 415648 Fax : 08110-415647 Ext. 131

16th Jul 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Geetha S.K.**, studying M.Sc. Organic Chemistry in **Mangalore University**, has successfully completed the project work titled "**Efficient and facile synthesis of Etoricoxib: A selective cox-2 inhibitor**" in our Chemical Research Division (CRD) during the period **7th June 2018 to 13th July 2018** under the supervision of Mr. Arun Kumar Awasthi.

We wish **Ms. Geetha S.K.** all the best in her future endeavors.

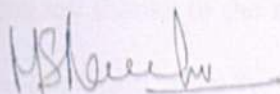
Dr. Pramod Kumar
Sr. Vice President (R&D)

INSTITUTE OF DRILLING FLUIDS RESEARCH & DEVELOPMENT

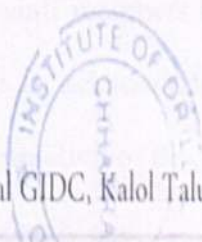
CERTIFICATE OF TRAINING

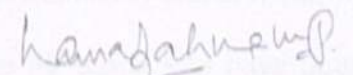


This is to certify that Mr/Ms. HARSHITH
has successfully completed certificate course on THE PROJECT "A Study of importance
of Gel characteristics in Conventional & Xch Polymer based Drilling Fluid
[MUD]
conducted at IDFRD Laboratory at Chhatral GIDC, Gandhinagar, Gujarat
from 14./06/2018 to 14./07/2018 for duration of hrs


Head Labs, IDFRD

IDFRD, Plot no. C1-3354, Phase 4, Chhatral GIDC, Kalol Taluka, Gandhinagar, Gujarat- 382729.




Course Instructor, IDFRD

22nd August 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. KALATAPASWI UPPULURI (Reg. No: 175125911), student of M.Sc. Organic Chemistry from Mangalore University, has completed a project in our R&T Centre titled "***Development and Validation of Analytical Method for Clodinafop-Propargyl & Cloquintocet-Mexyl by HPLC and Study of Physico-Chemical Properties***" from 11th June 2018 to 27th July 2018 as part of her academic curriculum.

We wish her success in all her future endeavors.

Yours faithfully,
Syngenta Biosciences Pvt. Ltd.

A handwritten signature in blue ink, appearing to read "Ravi Kiran".

Ravi Kiran
HR Business Partner-
R&T & Human Resources
South Asia



Biocon Limited
20th KM, Hosur Road,
Electronic city,
BANGALORE 560100,
India

www.biocon.com

BL/HRD/CERT/P002187

Date : 12/07/2018

CERTIFICATE

This is to certify that, Ms. KALPITHA V A has successfully completed her Internship at our QC SMALL MOLECULE API department from 11/06/2018 to 12/07/2018 in Biocon Limited.

We wish her every success in all her endeavors.

A handwritten signature in blue ink, appearing to read 'Pallavi G. G.', written over a horizontal line.

Human Resources Department
Biocon Limited



JBF Petrochemicals Limited

No.: 4-214, P.B.No. 001, Industrial Plot No.-9, Mangalore SEZ Ltd, Village Bajpe, Mangalore, Dakshina Kannada District, Karnataka - 574142. Ph: 0822-22885959
CIN : U24290DN2008PLC000287

JBFPL/HR/PC/18-13

14th July 2018

TO WHOM SO EVER IT MAY CONCERN

This is to certify that, **Mr. Karthik A, M.Sc. Chemistry** 02nd Semester student of Mangalore University, has undergone his project work on "Analysis of PTA and its raw materials" in Lab functions from 05th June 2018 to 14th July 2018 at JBFPL PTA Plant in MSEZ, Mangaluru. During this period, he has proved himself to be an effective learner. His conduct during the training with us was good.

We wish him all the very best in his future endeavors.

For JBF Petrochemicals Ltd.


Dheeraj Shetty

General Manager - HR, IR & Admin

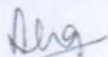


CERTIFICATE

This is to certify that **Mr.Karthik N C** student of M.Sc. Organic chemistry from Mangalagangothri, Mangalore University, Karnataka, has done Project work on "**Preparation of Sucrose esters of oleic acid and neem oil**" at our Research and Development Laboratory as part of *CHEMPRO Industrial Training program* under the guidance of **Dr. P M Radhakrishna** and **Dr. K C Sharada** during the period 5th June 2018 to 12th July 2018

Date: 12th July 2018

Place: Bangalore



Dr. K C Sharada., PhD
Technical Director
Chemlife Innovations Pvt. Ltd.
Bangalore



Dr. Radhakrishna., Ph.D., PGDM(XLRI)
Managing Director
Chemlife Innovations Pvt. Ltd
Bangalore



We create chemistry

BASF India Limited, Mangalore, India

Date 13th July, 2018
Name C. M. Nataraj
Department HR & Administration
Telephone 2237116
Telefax 2270025

CERTIFICATE

This is to certify that Mr. Karthika, a student from Mangalore University, Mangalore has completed his In Plant Training in our Company as a partial fulfilment of his curriculum for his M.Sc. IV – Sem. (Organic Chemistry) for a period of five weeks from 11.06.2018 to 13.07.2018. During the training period, he had necessary training in Customization Lab. He also carried out a Project on **"Evaluation of New Flow & Levelling Additive in Clear Coat for appearance Improvement"**.

He was disciplined and showed keen interest in his training besides being regular and punctual.

We wish him all success in his future endeavours.

(C. M. Nataraj)
Head HR – Mangalore Works

BASF India Limited
Surathkal - Bajpe Road
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2237 114
Fax +91 824 2270 025

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Plot No C-70, 'G' Block
Kurla Complex, Bandra (East)
Mumbai- 400051
Tel. +91 22 52785600
Website: www.basf.com.in
L33112MH1943FLC003972

To whomsoever it may concern

This is to certify that **Mr. KARUNAKARA** from Mangalore University has completed his internship project in Chemistry at Eurofins Advinus Ltd., Bengaluru, from 11th June 2018 to 20th July 2018. He has completed his project work entitled "**Synthesis of 2-chloro nicotinic acid and its derivatives**" successfully under the guidance of Dr. Vijay Kumar M. at Department of Chemistry, Eurofins Advinus Ltd., Peenya, Bengaluru.

During the tenure of training his conduct and learning was satisfactory.



Dr. VIJAY KUMAR M.

Group Leader, Department of Chemistry,

Eurofins Advinus Ltd., Bengaluru.


20-7-2018

Dr. HARI PATI

Head, Department of Chemistry,

Eurofins Advinus Ltd., Bengaluru.

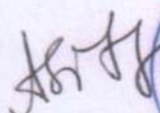


RALLIS INDIA LIMITED

No 73/1C & 1D Byregowda Industrial Estate Srigandhanagar Hegganahalli Bangalore 560 091
Tel 91 80 6729 2600 website www.rallis.co.in
Corporate Identity No. L36992MH194BPLCO14083

CERTIFICATE

This is to certify that Mr. Kiran Rao K studying in M.Sc. (Organic Chemistry) at the Department of Chemistry, Mangalore University, Mangalagangothri, has satisfactorily undergone practical training on **"Preparation of Chalcones and their Application for the Synthesis of Pyrazolines"** at Synthesis department, Rallis India Ltd., Byregowda Industrial Area, Bangalore.



Dr. Paniraj A S
Senior Manager (R & D)
Rallis India Ltd.,
A Tata Enterprise,
Bangalore, India



NJD/HR/PTC/2018-19/25

July 27, 2018

TO WHOMSOEVER IT MAY CONCERN

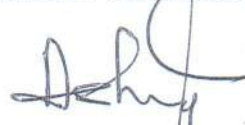
This is to certify that Ms. Lasya Shetty, D/o Jagadeesh Shetty, Reg no: 175125918, pursuing MSc Organic Chemistry in Mangalore University - Mangalagangothri, has successfully completed her Project and Internship in "Characterization of Active Pharmaceutical Drug - Escitalopram Oxalate By HPLC And GC Method" in our Organization from 11th June 2018 to 09th July 2018.

She has completed the Project and Internship under the guidance of Mr. Raghavender Rao Desai, Associate Head- Analytical (API).

During this period Ms. Lasya Shetty has shown keen interest and completed the Project and Internship successfully.

We wish her success in future endeavors.

for JUBILANT GENERICS LIMITED

 27/07/18

 SUBRAHMANYA A
DEPUTY GENERAL MANAGER - HR

A Jubilant Pharma Company

OUR VALUES



INSPIRE
CONFIDENCE



ALWAYS
STRETCH



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INNOVATION



EXCELLENT
QUALITY

Jubilant Generics Limited
Plot No. 18, 56, 57 & 58
KIADB Industrial Area, Nanjangud-571 302
Mysore, Karnataka, India
Tel: +91 8221 228402-8
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I-A, Sector 16-A
Noida-201 301, UP India
Tel: +91 120 2516601-11
<http://www.jubilantpharma.com>

Regd Office :
I-A, sector 16-A
Noida-201 301, UP India
CIN:U24100UP2013FLC0

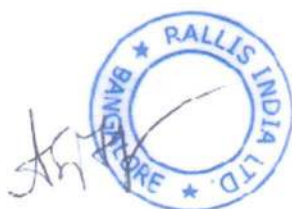


RALLIS INDIA LIMITED

No 73/1C & 1D, Byregowda Industrial Estate Srigandhanagar Hegganahalli Bangalore 560 091
Tel 91 80 6729 2600 website www.rallis.co.in
Corporate Identity No. L35992MH1948P.CO14083

CERTIFICATE

This is to certify that Mr. Manjesh H.C studying in M.Sc. (Organic Chemistry) at the Department of Chemistry, Mangalore University, Mangalagangothri, has satisfactorily undergone practical training on **"Preparation of Chalcones and their Application for Michael Addition Reactions"** at Synthesis department, Rallis India Ltd., Byregowda Industrial Area, Bangalore.



Dr. Paniraj A S
Senior Manager (R & D)
Rallis India Ltd.,
A Tata Enterprise,
Bangalore, India



Lake Chemicals Pvt. Ltd.

Prestige Atrium, 6th Level, Unit No. 603,
No.1, Central Street, Opp. Empire Hotel,
Shivaji Nagar, Bangalore - 560 001. INDIA
Tel. : +91-80-22868600 Fax : +91-80-22868603
E-mail : marketing@lakeindia.in

4th July 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. PRAJNA KG** presently pursuing her M.Sc (Organic Chemistry) from Mangalore University (Mangalagangothri, Konaje) has completed her Project titled "**Synthesis of Bromazepam Impurities**" from 06-06-2018 to 06-07-2018 in our organization as a partial requirement of the curriculum.

She has shown interest in learning and her conduct and character was good.

We wish her good luck in her future endeavours.

For Lake Chemicals Pvt. Ltd.


Dr. T. Tilak Raj

V.P (Technical)

Lake Chemicals Pvt. Ltd.



Visit Us at : www.lakeindiaapi.com

Factory: # 21M, Attibele Industrial Area, Anekal Taluk, Bangalore-562 107. INDIA.

Tel.: +91-8110-653731 Email : admin1unit1@lakeindia.in

CIN No. U85110KA1992PTC013751

Recipharm

11th July 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Prathibha K, Reg. No. 175125921 student of MSc – Organic Chemistry, III Semester from Mangalore University - Mangalagangothri - Konaje has successfully completed her Internship Training at "Recipharm Pharmservices Pvt Ltd" for 26 days.

This Certificate is issued only for her academic purpose.

We wish her all the success in her future endeavours.

for RECIPHARM PHARMASERVICES PVT LTD.,



CHAYA DEVI
MANAGER - HUMAN RESOURCES



Syngenta Biosciences Pvt. Ltd.
Santa Monica Works
Corlim, Ilhas
Goa 403 110, India
Tel : + 91 832 2490500
Fax : + 91 832 2490524
www.syngenta.com
CIN: U24210PN2001PTC135949

27th July 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss. Prathibha K.S student of M.Sc. from, Mangalore University, Konaje, has completed a project on "SYNTHESIS AND CHARACTERISATION OF USEFUL ORGANIC INTERMEDIATES FOR AGRO-CHEMICAL RESEARCH" from 11th Jun 2018 – 27th July 2018, as part of her academic curriculum.

We wish her success in her future endeavors.

Yours faithfully,
Syngenta Biosciences Pvt. Ltd.



MICRO LABS LIMITED

PLOT NO. 43-45, K.I.A.D.B., JIGANI-BOMMASANDRA LINK ROAD, ANEKAL TALUK, BANGALORE-560 105
Tel : 08110-415647, 415648 Fax: 08110-415647 Ext 131

09th Jul 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Ranjana H.**, studying M.Sc. Organic Chemistry at Mangalore University, Mangalagangothri, has successfully completed the project work titled "**Synthesis of Efonidipine Hydrochloride Ethanolate and its Impurities**" in our Chemical Research Division (CRD) during the period **7th June to 7th July 2018** under the supervision of Dr. Shailendra Dubey.

We wish **Ms. Ranjana H.** all the best in her future endeavors.

Dr. Pramod Kumar
Sr. Vice President (R&D)



Chemlife Innovations Private Limited
183/2, 3rd Floor, Corporation Bank Building,
Bagalur Main Road, Kattigenahalli,
IAF Post, Bengaluru - 560063 M. : 984424577
E-mail : chemlifeinnovations@gmail.com
Web: www.chemlifeinnovations.com
CIN : U24304KA2016PTC096654

CERTIFICATE

This is to certify that **Mr. Rohith Kulal A** student of M.Sc. Organic chemistry from Mangalagangothri, Mangalore University, Karnataka, has done Project work on "Oxidative Chlorination of 8-Hydroxy Quinoline" at our Research and Development Laboratory as part of *CHEMPRO Industrial Training program* under the guidance of **Dr. P M Radhakrishna** and **Dr. K C Sharada** during the period 5th June 2018 to 12th July 2018

Date: 12th July 2018

Place: Bangalore

Dr. K C Sharada., PhD
Technical Director
Chemlife Innovations Pvt. Ltd.
Bangalore

Dr. Radhakrishna., Ph.D., PGDM(XLRI)
Managing Director
Chemlife Innovations Pvt. Ltd
Bangalore

REF : ABPL/HRD/Trainee Ltr

DATE : 20th July, 2018

Certificate of Project Completion

I hereby certify that the thesis entitled "SYNTHESIS OF BRETTPHOS LIGAND AND ITS APPLICATIONS IN THE PALLADIUM CATALYZED COUPLING REACTIONS" submitted by **Mr. SHASHANK B V** who has successfully completed his research project at Chemistry department of our organization from **05th June, 2018** to **20th July, 2018** under the guidance of **Mr. PRASHANTH NAYAK**.

He demonstrated significant enthusiasm and scientific acumen during this period. We found him 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



PRASHANTH NAYAK
Manager- Chemistry Lab



NJD/HR/PTC/2018-19/24

July 27, 2018

TO WHOMSOEVER IT MAY CONCERN

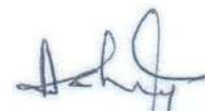
This is to certify that Ms. Shravya S Bangera, D/o Shridhara Bangera, Reg no: 175125927, pursuing MSc Organic Chemistry in Mangalore University - Mangalagangothri, has successfully completed her Project and Internship in "Characterization of Active Pharmaceutical Drug - Levetiracetam By HPLC, KF And GC Method" in our Organization from 11th June 2018 to 09th July 2018.

She has completed the Project and Internship under the guidance of Mr. Raghavender Rao Desai, Associate Head- Analytical (API).

During this period Ms. Shravya S Bangera has shown keen interest and completed the Project and Internship successfully.

We wish her success in future endeavors.

for JUBILANT GENERICS LIMITED

 27/07/18

 SUBRAHMANYA A
DEPUTY GENERAL MANAGER - HR

A Jubilant Pharma Company

OUR VALUES



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Plot No. 18, 56, 57 & 58
KIADB Industrial Area, Nanjangud-571 302
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<http://www.jubilantpharma.com>

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Noida-201 301, UP India
Tel: +91 120 2516601-11
<http://www.jubilantpharma.com>

Regd Office :
I-A, sector 16-A
Noida-201 301, UP India
CIN:U24100UP2013FLC0608

20th July 2018**CERTIFICATE**

This is to certify that Ms. Supriya B.M. M.Sc student of Department of Chemistry from Mangalore University has successfully completed the Industrial Training at Department of Process Chemistry, Eurofins Advinus Ltd, Bengaluru, Karnataka from 11.06.2018 to 20.07.2018.

For Eurofins Advinus Ltd**Sarabjeet Singh****VP & Head – Human Resources**