



Original Research article

## Effect of Trimethoprim Inclusion Complexation with Cyclodextrins on its Antimicrobial Activity

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### ARTICLE INFORMATION

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### ABSTRACT

The aim of present study is to highlight the effects of  $\beta$ -cyclodextrin (BCD) and hydroxypropyl- $\beta$ -cyclodextrin (HBCD) and also the effect of their concentrations and methods of inclusion complexation on solubility and antibacterial activity of trimethoprim [TMP] by inclusion complex formation. The inclusion complexes of TMP were prepared by solvent





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Original Article

### Determination of Alcoholic Content in Various Alcoholic Beverages by Using Gas Chromatography Referring Internal Standard

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#### Abstract

Alcohol is a highly prevalent substance that has multiple forms and trends across cultures. Alcoholic beverages vary considerably in ethyl alcohol content and their primary ingredient. With the determination of alcohol content in various beverages, both in fermented and distilled the potency of beverages can be established. For this, many different methods of measuring alcohol content have arisen. A novel method for alcohol quantitation is direct injection Gas Chromatography (GC-FID) using megapore pack column (carbowax 10%, 2 m x 0.12 mm) referring internal standard Acetone. The method effectively and efficiently determines the alcoholic concentration (% v/v) with little preparations in a wide variety of matrices with prominent outcomes in lesser time.

**Keywords:** Direct injection Gas Chromatography; Alcoholic Beverages; Pure Ethyl alcohol; Quantitative analysis.

**Corresponding Author :** Vikas V Patil



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This is certifying that miss. Rishwini M Gangurde has completed Industrial training in our organization. This certificate has been issued on request of the Candidate.

Thanks & Regards  
For Centaur Pharmaceuticals Pvt. Ltd.

**Mr. Ashok K. Walunj**  
(Works Manager)



30<sup>th</sup> June 2019


**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Miss. More Divya Dilip** Third Year Student of **Kisan Vidya Prasark Sanstha's Institute of pharmaceutical Education Boradi**, Was with us From 2<sup>nd</sup> From 2<sup>nd</sup> June 2019 To 30<sup>th</sup> June 2019 for project in **Large Volume Parental Injection In QMS Department**. During this period he was found to taken Good interest in his training Program.

We wish all the best of Luck for his future.

For **Otsuka Pharmaceutical India Pvt.Ltd**

HRM



30/06/19

**\*This is computer Generated record no need of sign and stamp\***

**Otsuka Pharmaceutical India Private Limited**  
(Previously Known as Claris Otsuka Pvt. Ltd.)

Date: 10.08.2019

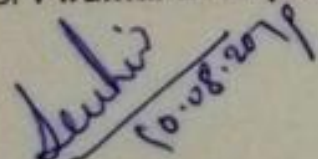
To Whom It May Concern

This is to Certify that Ms. Neelam N. Suryawanshi student from K.V.P's Institute Of Pharmacy, Boradi undergone Industrial Training in our Company from 1<sup>st</sup> June 2019 To 29<sup>th</sup> June 2019.

During her training we found her sincere, attentive, and hard working. She has shown keen interest in learning various activities of the organization to which she was exposed.

We wish her all the success in her future career.

For Piramal Enterprises Limited

  
Sachin Shelke  
Manager-HR

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Date: 18 JULY 2019

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Sagar Ratibhan Patil has done his industrial training with us from 16 June 2019 to 17 July 2019.

During the training he demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the Training successfully on time.

We wish him all the best for his future endeavors.

Warm regards,

FACTORY MANAGER

MANAGER (H.R)

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This is to certify that Mr. **PATIL HITESH MADHUKAR** of K.V.P.S.I P.E Boradi, shirpur 425428. He has undergone industrial training from 01June 2019 to 30June 2019 at Steris Healthcare, Mumbai. During this period he has been guided about the basics of pharmaceutical instruments workings and product manufacturing process. He has been guided about the basics of pharmaceutical products marketing.

During the period of his training program with us he was found punctual, hardworking and inquisitive.

STERIS



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TanajiChowk, Ambedkar Nagar, Kurla West, Kurla, Mumbai, Maharashtra 400070

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sterishealthcare@gmail.com  
<http://sterispharma.com>

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06.06.2019

## CERTIFICATE

This is to certify that Mr. Ankush Haridasrao Kaple B. Pharm student from Institute of Pharmaceutical Education Boradi. Tal. Shirpur Dist. Dhule has under gone in plant training in our organization from 03.05.2019 to 05.06.2019 during his training period his enthusiasm towards acquiring skill and learning attitude was good.

We wish him all the best for his carrier and professional life.

Authorized signatory

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E-mail : lykaank@lykalabs.com • Website : www.lykalabs.com • CIN No. : L24230GJ1976PLC008738

29<sup>th</sup> June 2019

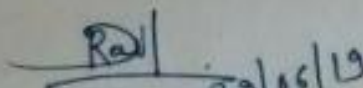
## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Manyar Ajaz Kaleem Third Year Student of *Kisan Vidya Prasark Sanstha's Institute of pharmaceutical Education Boradi*, Was with us From 1<sup>st</sup> June 2019 To 29<sup>th</sup> June for project in *Dry Powder Injection Production Department*. During this period he was found to taken interest in his assignment.

We wish all the best for his future.

For Lyka Labs Limited Ankleshwar.

D.G.M

  
Dr. Dharmendra Rai





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DATE:-17/06/2018

**TO WHOMSOEVER IT MAY CONCERN**

This is to state that Mr. Nileshkumar Himmat Patil S/o Mr Dnyaneshwar Patil, B.pharm student, Kisan Vidya Prasarak Sanstha's Institute of Pharmaceutical Education, Boradi Taluka – Shirpur Dist - Dhule, M.S. college of Pharmacy. Completed One month in Plant Training in Liquids, External, Capsules, Tablets, QC & QA Department in Both Allopathic & Ayurvedic Department since 14/05/2018 to 16/06/2018.

We further state that he is faithful, hardworking and sincere to his work and we found him to be punctual in his attendance. We also feel it will be beneficial to us of the project he is working.

We wish him good luck in his future task.

For Manbro Pharma Pvt.Ltd

Director





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Date: 07/07/2018

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify **Mr. Metkar Vinod Bhalchandra** student of third Year B Pharm of  
**Institute of pharmaceutical Education Boradi, Tal. Shirpur Dist. Dhule.** Has completed  
The in plant Training from the period of 04/06/2018 to 03/07/2018

He was rotated in the various Department such as Production Q.A., Q.C.

And Store during his training

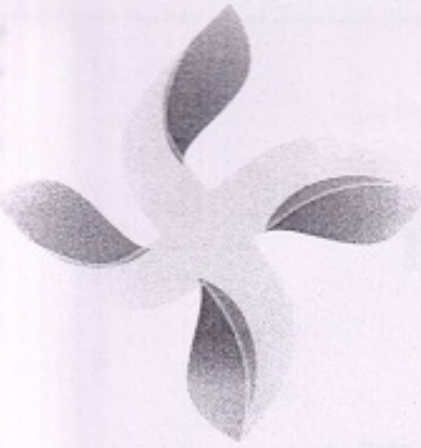
He was found Hardworking and Sincere in his Training

We Wish a Best Success for His future

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**CIN** : U24230MH2003PTC141791

Date: 14<sup>th</sup> July 2018

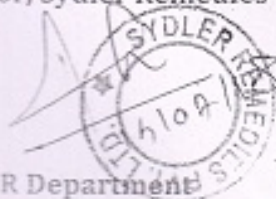
**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Miss.Sukeshanee Satish More a student of Institute of Pharmaceutical Education , Boradi has successfully done her In plant training at QA, QC, Production & RA Dept. At our plant Sydler Remedies Pvt. Ltd. M-190 Waluj Aurangabad, from 01<sup>st</sup> June 2018 to 30<sup>th</sup> June 2018.

During the tenure of her training she was quite industrious & dependable with enthusiastic attitude of learning with good perception & good performance.

We wish her all the best for her better future.

For, Sydler Remedies Pvt. Ltd.

  
HR Department



Sydler Remedies Pvt. Ltd.

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Fax : 0253-2381274

June 15, 2018

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Shirsath Swapnil Bhikan** 3<sup>rd</sup> Year B.Pharm student of KVPS Institute of Pharmaceutical Education, Boaradi Tel. Shirpur Dist. Dhule was with us for Industrial Training from May 15, 2018 to June 14, 2018 in Quality Department. During the period of his internship program with us he was found punctual, Sincere & inquisitive.

We wish him all the best a successful future.

**For GalaxoSmithKline Pharmaceuticals Limited**

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DATE:-17/06/2018

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This is to state that Ms. Varsha Tarachand Dhole D/o Mr. Tarachand Dhole B.pharm student, Kisan Vidya Prasarak Sanstha's Institute of Pharmaceutical Education, Boradi Taluka – Shirpur Dist - Dhule, M.S. college of Pharmacy And Research Institute, karjat, Completed one month In plant Training in Liquids, External, Capsules, Tablets, QC & QA Department in Both Allopathic & Ayurvedic Department since. 14/05/2018 to 16/06/2018.

We further state that she is faithful, hardworking and sincere to her work and we found her to be punctual in her attendance. We also feel it will be beneficial to us of the project she is working.

We wish her good luck in her future task.

**For Manbro Pharma Pvt.Ltd**

Director





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DATE:-17/06/2018

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This is to state that Ms. Rajshri Tarachand Dhole D/o Mr. Tarachand Dhole B.pharm student, Kisan Vidya Prasarak Sanstha's Institute of Pharmaceutical Education, Boradi Taluka – Shirpur Dist - Dhule, M.S. college of Pharmacy And Research Institute, karjat, Completed one month In plant Training in Liquids, External, Capsules, Tablets, QC & QA Department in Both Allopathic & Ayurvedic Department since. 14/05/2018 to 16/06/2018.

We further state that she is faithful, hardworking and sincere to her work and we found her to be punctual in her attendance. We also feel it will be beneficial to us of the project she is working.

We wish her good luck in her future task.

**For Manbro Pharma Pvt.Ltd**

Director





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Date : 10<sup>th</sup> June 2017

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Pawara Ravindra Depha, Third Year, B. Pharm student of Insitute of Pharmaceutical Education Boradi, Tal. Shirpur Dist.- Dhule has undergone INDUSTRIAL TRAINING IN PRODUCTION (TABLE, CAPSULES, OINTMENT DEPT.) PACKING & QUALITY CONTROL DEPARTMENT for the period of One Month i. e. from 8<sup>th</sup> May 2017 to 9<sup>th</sup> June 2017

During the training period, we found his sincere honest & enthusiasts.

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## CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is certify that MR.PAWARA BHARAT DILIP a Third Year B.Pharmacy Student of I.P .E .College Boradi Shirpur Dhule -425405 completed her one month Industrial Training at our factory form 18<sup>th</sup> May To 17<sup>th</sup> June 2017.

She has received training in our factory (manufacturing of Tablets,Pills,Asava,Arishta).

Her behavior and conduct was satisfactory during this period. We wish her all the best in future life .

  
**MANAGER**  
Khandesh Ayurvedic Pharmacy  
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Dt. : 16th June 2017

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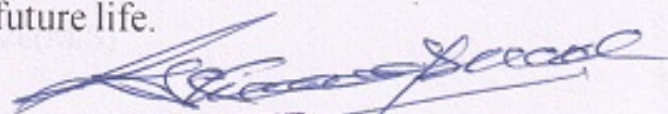
This is certify that **Mr. SHAHRUKH CHIRAG KHATIK** a Thrid Year B Pharmacy Student of K.V.P.S.'s Institute of Pharmaceutical Education Boradi, Tal Shirpur, Dist : Dhule.

He Has completed his one month practical training at our factory from 17<sup>th</sup> May to 16<sup>th</sup> June, 2017.

He has received training in our factory (Manufacturing of Tablet, Pills, Asava, And Arishta)

His Behavior and conduct was satisfactory during this period.

We wish him all the best in his future life.

  
**MANAGER**  
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E-mail : contact@norrispharma.com  
Website : www.norrispharma.com  
CIN : L24230MH1990PLC058071

Date: 03/07/2017

**TO WHOM SO EVER IT MAY CONCERN**

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He was rotated in the various Department such as Production Q.A.,Q.C.

And Store during his training

He was found Hardworking and Sincere in his Training

We Wish a Best Success for His future

For- NORRIS MEDICINES LIMITED

Authorised Signatory



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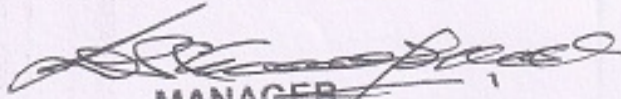
## CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is certify that Mr. PATIL PRATTYUM RAMCHANDRA a Third Year B. Pharmacy Student of K. V. P. S. College Boradi, Tal- Shirpur, Dhule 425405 completed his one month Industrial Training at our factory form 18<sup>th</sup> May to 17<sup>th</sup> June 2017.

He has received training in our factory (Manufacturing of Tablets, Pills, Asava, Arishta).

His behavior and conduct was satisfactory during this period. We wish his all the best in future life.

  
MANAGER  
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Dt. : 16th June 2017

## CERTIFICATE

### TO WHOMSOEVER IT MAY CONCERN


This is certify that **Mr. SWAPNIL CHANDRAMANI AKHADE** a Thrid Year B Pharmacy Student of K.V.P.S.'s Institute of Pharmaceutical Education Boradi, Tal Shirpur, Dist : Dhule.

He Has completed his one month practical training at our factory from 17<sup>th</sup> May to 16<sup>th</sup> June, 2017.

He has received training in our factory (Manufacturing of Tablet, Pills, Asava, And Arishta)

His Behavior and conduct was satisfactory during this period.

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**MANAGER**  
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Date : 10<sup>th</sup> June 2017

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This is to certify that Miss.Shubhangi Sanjay Koli, Third Year, B. Pharm student of Insitute of Pharmaceutical Education Boradi, Tal. Shirpur Dist.- Dhule has undergone INDUSTRIAL TRAINING IN PRODUCTION (TABLE, CAPSULES, OINTMENT DEPT.) PACKING & QUALITY CONTROAL DEPARTMENT for the period of One Month i. e. from 8<sup>th</sup> May 2017 to 9<sup>th</sup> June 2017

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E-mail : HAPL Jalgaon : yagnot\_jal@sanchamnet.in

Date : 10<sup>th</sup> June 2017

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Gosavi Shankar N., Third Year, B. Pharm student of Insitute of Pharmaceutical Education Boradi, Tal. Shirpur Dist.- Dhule has undergone INDUSTRIAL TRAINING IN PRODUCTION (TABLE, CAPSULES, OINTMENT DEPT.) PACKING & QUALITY CONTROL DEPARTMENT for the period of One Month i. e. from 8<sup>th</sup> May 2017 to 9<sup>th</sup> June 2017

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Date : 10<sup>th</sup> June 2017

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Pawara Aakash Shivaji, Third Year, B. Pharm student of Insitute of Pharmaceutical Education Boradi, Tal. Shirpur Dist.- Dhule has undergone INDUSTRIAL TRAINING IN PRODUCTION (TABLE, CAPSULES, OINTMENT DEPT.) PACKING & QUALITY CONTROAL DEPARTMENT for the period of One Month i. e. from 8<sup>th</sup> May 2017 to 9<sup>th</sup> June 2017

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Jalgaon

Head Office : Haffkine Institute Compound, Acharya Donde Marg, Parel. Mumbai - 400012  
HAPL Tel.: 24146464, Gen. 24129320. Mkt. 24146419, HBPCCL Fax : 022 - 24168578

# PEEKAY PHARMA



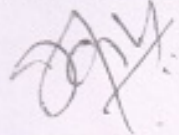
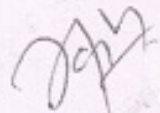
ACKNOWLEDGEMENT

To whom it may concern,

This is certifying that Mr. /Ms. PAWAR GORKH DIWAN had completed the training of **PHARMA PRODUCTION** in our factory from: **17/06/2016** to **17/07/2016**, in production, packing and laboratory department. Under our guidance's.

We pray for his/her bright future.....

**DR. HANISH AJMERA**


  
**(PROPRIETOR)** 

**MANUFACTURERS OF AYURVEDIC MEDICINES**

A.O.: 16, III Floor, Dawa Bazar, R.N.T. Marg, Indore-452 001.

Phone : (O) 0731-4041607, (R) 2882244

Factory : 87 'C', Special Gandhi Nagar, Indore-453 112. Ph.: 2882139, 2882244

  
**27/7/2017**





# Haffkine Ajintha Pharmaceuticals Ltd.

(A Govt. Of Maharashtra Undertaking)

Factory : B - 4, M.I.D.C. Industrial Area, Ajantha Road, Mehrun, Jalgaon - 425003

Tel.:(0257) 2270119, 2210093 Fax No.:(0257) 2210233

E-mail : hapl\_jalgaon@rediffmail.com

Date : 24<sup>th</sup> June 2016.

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Miss. Dhole Yogita J. , Final Year, B.Pharm a student of K.V.P.'s INSTITUTE OF PHARMACEUTICAL EDUCATION, BORADI, TAL- SHIRPUR, (DIST- DHULE) has undergone INDUSTRIAL TRAINING in PRODUCTION (TABLETS, CAPSULES, OINTMENT DEPT) PACKING & QUALITY CONTROL DEPARTMENT for the period of One month i.e. from 23<sup>rd</sup> May 2016 To 24<sup>th</sup> June 2016.

During the training period, we found him sincere, honest & enthusiastic.

In-Charge Quality Control  
Haffkine Ajintha Pharmaceuticals Ltd.  
Jalgaon.





# Haffkine Ajintha Pharmaceuticals Ltd.

(A Govt. Of Maharashtra Undertaking)

Factory : B - 4, M.I.D.C. Industrial Area, Ajantha Road, Mehrun, Jalgaon - 425003  
Tel.:(0257) 2270119, 2210093 Fax No.:(0257) 2210233  
E-mail : hapi\_jalgaon@rediffmail.com

Date : 24<sup>th</sup> June 2016.

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr.Bhadane Yogesh B., Final Year, B.Pharm a student of K.V.P.'s INSTITUTE OF PHARMACEUTICAL EDUCATION, BORADI, TAL- SHIRPUR, (DIST- DHULE) has undergone INDUSTRIAL TRAINING in PRODUCTION (TABLETS, CAPSULES, OINTMENT DEPT) PACKING & QUALITY CONTROL DEPARTMENT for the period of One month i.e. from 23<sup>rd</sup> May 2016 To 24<sup>th</sup> June 2016.

During the training period, we found him sincere, honest & enthusiastic.

In-Charge Quality Control -  
Haffkine Ajintha Pharmaceuticals Ltd.  
Jalgaon.



# PEEKAY PHARMA




ACKNOWLEDGEMENT

To whom it may concern,

This is certifying that Mr. /Ms. PAWARA MAHENDRA KEDAR have completed the training of **PHARMA PRODUCTION** in our factory from: 17/06/2016 to 17/07/2016, in production, packing and laboratory department. Under our guidance's.

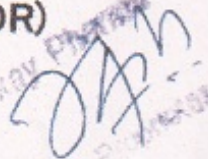
We pray for his/her bright future.....

Mr. Pawara Mahendra Kedar

  
Final Year B.Pharmacy

DR. HANISH AJMERA

  
(PROPRIETOR)

For PEEKAY PHARMA  
  
Proprietor

**MANUFACTURERS OF AYURVEDIC MEDICINES**

A.O.: 16, III Floor, Dawa Bazar, R.N.T. Marg, Indore-452 001.

Phone : (O) 0731-4041607, (R) 2882244

Factory : 87 'C', Special Gandhi Nagar, Indore-453 112. Ph.: 2882139, 2882244



**NORRIS**  
MEDICINES LIMITED



Factory : Plot No. 801/P, GIDC Estate,  
ANKLESHWAR 383 002. (Gujarat)  
Regd. Office : Plot No. 801/P, GIDC Estate,  
ANKLESHWAR 383 002. (Gujarat)  
Telephone : (02848) 223482, 227530  
Fax : (02848) 250126  
E-mail : [contact@norrispharma.com](mailto:contact@norrispharma.com)  
Website : [www.norrispharma.com](http://www.norrispharma.com)  
GIN : LB4290MH1990PLC058871

Date:02/07/2015

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Bhandari Sanjay V. student of Third Year B. Pharm of Institute of Pharmaceutical Education, Boradi, Tal. shirpur. Dist. Dhule. has completed the In Plant Training from the period of 03/06/2015 to 02/07/2015

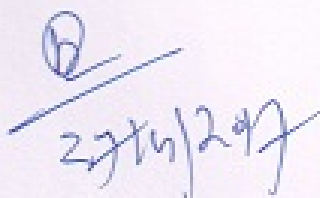
He was rotated in the various Departments such as Production, Q.A., Q.C. and Store during his training.

He was found Hardworking and Sincere in his Training

We Wish a Best Success for His future.

For: NORRIS MEDICINES LIMITED

  
Authorized Signatory

  
27/6/2015





# Haffkine Ajintha Pharmaceuticals Ltd.

(A Govt. Of Maharashtra Undertaking)

Factory : B - 4, M.I.D.C. Industrial Area, Ajantha Road, Mehrun, Jalgaon - 425003

Tel.:(0257) 2270119, 2210093 Fax No.:(0257) 2210233

E-mail : hapl\_jalgaon@rediffmail.com

Date : 24<sup>th</sup> June 2016.

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr.Bhadane Yogesh B., Final Year, B.Pharm a student of K.V.P.'s INSTITUTE OF PHARMACEUTICAL EDUCATION, BORADI, TAL- SHIRPUR, (DIST- DHULE) has undergone INDUSTRIAL TRAINING in PRODUCTION (TABLETS, CAPSULES, OINTMENT DEPT) PACKING & QUALITY CONTROL DEPARTMENT for the period of One month i.e. from 23<sup>rd</sup> May 2016 To 24<sup>th</sup> June 2016.

During the training period, we found him sincere, honest & enthusiastic.

In-Charge Quality Control .  
Haffkine Ajintha Pharmaceuticals Ltd.  
Jalgaon.





# Haffkine Ajintha Pharmaceuticals Ltd.

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Tel.:(0257) 2270119, 2210093 Fax No.:(0257) 2210233  
E-mail : hapl\_Jalgaon@rediffmail.com

Date : 24<sup>th</sup> June 2016.

## CERTIFICATE

### TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Sagargir K. Gosavi, Third Year, B.Pharm a student of K.V.P.'s INSTITUTE OF PHARMACEUTICAL EDUCATION, BORADI, TAL- SHIRPUR, (DIST- DHULE) has undergone INDUSTRIAL TRAINING in PRODUCTION (TABLETS, CAPSULES, OINTMENT DEPT) PACKING & QUALITY CONTROL DEPARTMENT for the period of One month i.e. from 20<sup>th</sup> May 2016 To 20<sup>th</sup> June 2016.

During the training period, we found him sincere, honest & enthusiastic.

In-Charge Quality Control  
Haffkine Ajintha Pharmaceuticals Ltd.  
Jalgaon.



## ACKNOWLEDGEMENT



MOPL/P&A/15-16

Date : 11/01/2016

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Aarti L. Thakur** student of 'Institute of Pharmaceutical Education, Boradi, has successfully completed her Industrial Inplant Training in our organization from 10/12/2015 to 10/01/2016.

During the training period we found her enthusiastic and sincere.

We hope every success in her future endeavour.

For **MEYER ORGANICS PVT. LTD.**

  
**KUMAR SALUNKHE**  
**ASSISTANT MANAGER PRODUCTION**

Meyer Organics Pvt. Ltd. (An ISO 9001 Certified Organisation)

In technical collaboration with : Omega-Meyer Ltd. Jersey

Registered office : A-177, Road no. 16-Z, Wagle Industrial Estate, Thane (W) - 400 604. (INDIA)

Corporate office : A-303, Road no. 32, Wagle Industrial Estate, Thane (W) - 400 604. (INDIA)

Corporate Identity Number : U24239MH1981PTC023845

Tel.: (91) (22) 2581 7000, Fax : (91) (22) 2581 7002, email : info@meyer.co.in, website : www.meyer.co.in



**NORRIS**  
**MEDICINES LIMITED**



Factory : Plot No. 801/P, GIDC Estate,  
ANKLESHWAR 393 002. (Gujarat)  
Regd. Office : Plot No. 801/P, GIDC Estate,  
ANKLESHWAR 393 002. (Gujarat)  
Telephone : (02646) 223462, 227530  
Fax : (02646) 250126  
E-mail : contact@norrispharma.com  
Website : www.norrispharma.com  
CIN : L24230MH1990PLC058071

Date:02/07/2015

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Barela Sunil Singa** student of Third Year B. Pharm of Institute of Pharmaceutical Education, Boradi, Tal. shirpur. Dist. Dhule. has completed the In Plant Training from the period of 03/06/2015 to 02/07/2015

He was rotated in the various Departments such as Production, Q.A., Q.C. and Store during his training.

He was found Hardworking and Sincere in his Training

We Wish a Best Success for His future.

For- NORRIS MEDICINES LIMITED

Authorized Signatory

*Mr. Barela Sunil S.*  
*Final Year B. Pharmacy*  
27/7/2017