



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by PCI, AICTE & Affiliated to JNTUH)

Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



2018 - 2019

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (Internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web-links year-wise	Page No.
1	Suralabs	Suralabs, SS Towers, 4th floor, above Serena tiffin Center, beside Kamala Hospital, Gaddiannaram, Hyderabad, 500060	2018-2019	Industrial Training/Field Work	7 Days	Industrial Training on Instrumental Handling	4-26
				Project Work	6 Months	Project Work	
2	KP LABS	KP LABS, Kothapet, Hyderabad-500035, Telangana, India	2018-2019	Industrial Training/Field Work	7 Days	Industrial Training on Instrumental Handling	27-48
				Project Work	6 Months	Project Work	
3	Demon stration Of Animal Handling during drug screening	Dr. N. Harishankar, Deputy Director, Scientist E, NIN.	2018-2019	Academic Collaboration	4 Days	Collaboration	49-52
4	Introduction to Regulatory Toxicology	Dr. G. Chandraiah NIPER ,Balanagar, Hyderabad, Telangana 500037	2018-2019	Academic Collaboration	2 Days	Collaboration	53-54
5	Anwar-ul-Uloom college of pharmacy	Kanchu Charan Panda Department Of Pharmaceutics, Anwar-ul-Uloom college of pharmacy, RangaReddy, Telangana, India.	2018-2019	Collaborative research	6 Months	Research Collaboration - Publication Work	55
6	Malla Reddy College of Pharmacy	Chinmai Kesari Sahoo ,Department Of Pharmaceutics, Malla Reddy College of Pharmacy, Maisamma Guda, Hyderabad, Telangana, India.	2018-2019	Collaborative research	6 Months	Research Collaboration - Publication Work	
7	Netaji Institute of Pharmaceutical Sciences	D.Venkata Ramana Department Of Pharmaceutical Technology, Nethaji Institute of Pharmaceutical Sciences, Toopranpet, Yadadri Bhongir, Telangana, India.	2018-2019	Collaborative research	6 Months	Research Collaboration - Publication Work	

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8	Dr. Reddy's Laboratory, Hyderabad	Dr. Sama Jaipal Reddy, Formulation Analytical Research Development, Dr. Reddy's Laboratory, Hyderabad, Bachupally, Hyderabad.	2018-2019	Academic Collaboration	1 week	FDP	56
9	Director Vikas Institute of Pharmaceutical Sciences,	Dr. T. V. Narayana President Indian Pharmaceutical Association , Director Vikas Institute of Pharmaceutical Sciences, Rajahmundry, Andhra Pradesh.	2018-2019	Academic Collaboration-Faculty Exchange			
10	Centre for Cellular and Molecular Biology	Dr. Rakesh K. Mishra , Director, Centre for Cellular and Molecular Biology (Council of Scientific and Industrial Research) Hyderabad.	2018-2019	Academic Collaboration-Faculty Exchange			
11	Deputy Drug Controller of India, Central Drugs Standard Control Organization (CDSCO)	Dr. A. Ramkishan Deputy Drug Controller of India, Central Drugs Standard Control Organization (CDSCO), Ahmedabad. Ministry of Health and Family Welfare, Govt. of India.	2018-2019	Academic Collaboration-Faculty Exchange	2days	Bio Adhyayan	57
12	The Indian Pharmaceutical Association,	Dr. Prabha Sankar, President, The Indian Pharmaceutical Association, Telangana State Branch, Hyderabad.	2018-2019	Academic Collaboration-Faculty Exchange			
13	Nizam's Institute of Medical Sciences	Dr. G. Sadashivudu, Professor & HOD, Nizam's Institute of Medical Sciences.	2018-2019	Academic Collaboration-Faculty Exchange			

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14	Maulana Azad National Urdu University.	Dr. Ravindranath Aniseti, Dean Academic Affairs, Maulana Azad National Urdu University. Topic: "Bio Processing Technology- Emerging Challenges	2018-2019	Academic Collaboration- Faculty Exchange			
15	Commonwealth Pharmacists Association	Dr. Rao V.S.V. Vadlamudi, President, Commonwealth Pharmacists Association	2018-2019	Academic Collaboration- Faculty Exchange			
16	Center for Pharmaceutical Sciences, JNTUH,	Dr. G. Krishna Mohan, Professor, Centre for Pharmaceutical Sciences, JNTUH, Hyderabad.	2018-2019	Academic Collaboration- Faculty Exchange			
17	Focus Academy for Career Enhancement	Md. Ayman, face academy	2018-2019	Student Training	120 Hours		58-59



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During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.

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This is to certify that Mr/Miss. **BHOYAR AAKASH** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0005.

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This is to certify that Mr/Miss. **BYROJU SWATHI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, us part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0006.

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This is to certify that Mr/Miss. **CHAKALI NARESH** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0007.

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This is to certify that Mr/Miss. **CHEEMALA SUMALATHA** is a confident student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, as part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no- 16GN1R0008.

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This is to certify that Mr/Miss. **CHUNDURU JHANSI RANI** is a confident student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, as part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no- 16GN1R0009.

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This is to certify that Mr/Miss. **D RAJASHEKHAR** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0010.

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This is to certify that Mr/Miss. **ESLAVATH ANUSHA** is a confident student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, as part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0014.

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This is to certify that Mr/Miss. **LOMTE KISHORE** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0024.

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This is to certify that Mr/Miss. **MAHANKALI ASHWITHA** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no- 16GN1R0025.

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Date: 10-10-2019

CERTIFICATE

This is to certify that Mr/Miss. **M. Rajitha** bearing HT.NO: 17GN1S0307 pursuing his/her **M.Pharmacy** in **AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES** he/she carried out his/her project work in our Organization entitled "**FORMULATION DEVELOPMENT AND INVITRO EVALUATION OF IMMEDIATE RELESE TABLETS OF CARVEDILOL**" in the department of Pharmaceutics from **20 March 2019 to 10 March 2019**.

During his/her tenure he/she was sincere, hardworking and punctual in his/her Project work.

We wish his/her future career.

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Date: 10-10-2019

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This is to certify that Mr/Miss. **S. Sravan Kumar** bearing **HT.NO: 17GN1S0406** pursuing his/her **M.Pharmacy in AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES** he/she carried out his/her project work in our Organization entitled **“ANALYTICAL METHOD DEVELOPMENT AND VALIDATION SIMULTANEOUS ESTIMATION OF CINNARIZINE AND DOMPERIDONE IN COMBINE DOSAGE FORMS”** in the department of Pharmaceutics from **20 March 2019 to 10 March 2019**.

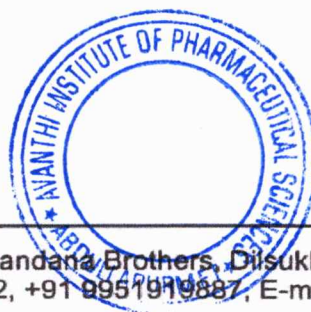
During his/her tenure he/she was sincere, hardworking and punctual in his/her Project work.

We wish his/her future career.

FOR SURA PHARMA LAB



Managing Director



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ganthapally (V), Abdullapurmet (M),
R.R.Os, Telangana.

Date: 10-10-2019

CERTIFICATE

This is to certify that Mr/Miss. **Goswami Komal** bearing HT.NO: **17GN1S0402** pursuing his/her **M.Pharmacy** in **AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES** he/she carried out his/her project work in our Organization entitled **“ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR CEFIXIME AND DICLOXACILLIN IN COMBINE PHARMACEUTICAL DOSAGE FORMS BY RP-HPLC”** in the department of Pharmaceutics from **20 March 2019 to 10 March 2019**.

During his/her tenure he/she was sincere, hardworking and punctual in his/her Project work.


We wish his/her future career.

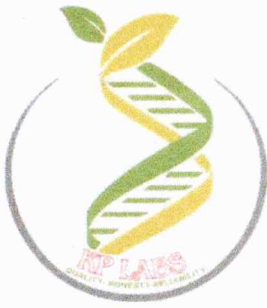
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R.500560, Telangana.



Date: 26-05-2019

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This is to certify that Mr/Miss. **NARABOINA NEERAJA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0028.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

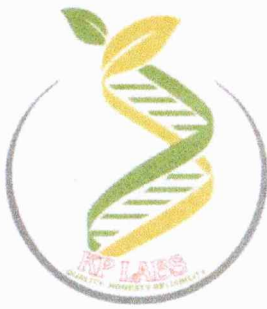
During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



Authorized Signature



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Date: 26-05-2019

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This is to certify that Mr/Miss. **NEERATI MOUNIKA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0029.

During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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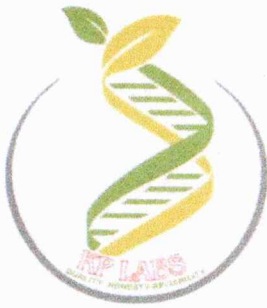
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Contact: 8885111163, 7207111163, 8143611163, 8019111163

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Date: 26-05-2019

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This is to certify that Mr/Miss. **PALLERLA SANTHOSHI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0030.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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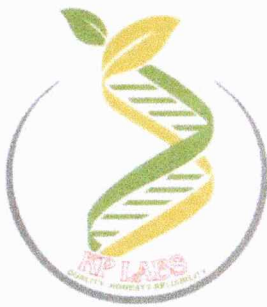
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Contact: 8885111163, 7207111163, 8143611163, 8019111163

Website : www.kdplpharma.com, Email : kdplpharma@gmail.com, info@kdplpharma.com





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This is to certify that Mr/Miss. **SADAKULA SWETHA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GNIR0031.

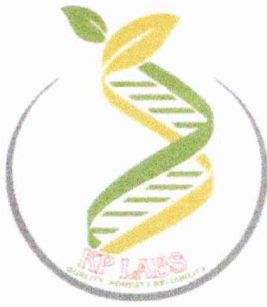
During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.


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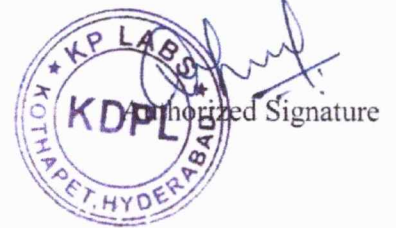
Date: 26-05-2019

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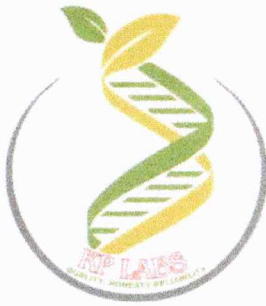
This is to certify that Mr/Miss. **S AKHIL KUMAR** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no- 16GN1R0032.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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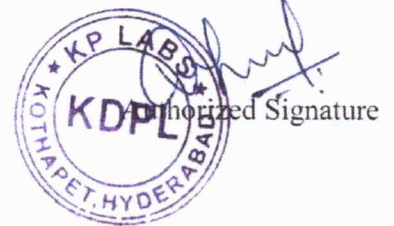
Date: 26-05-2019

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This is to certify that Mr/Miss. **TALE SHIRISHA** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no- 16GN1R0033.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

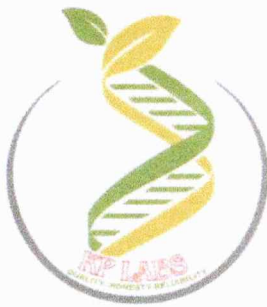
During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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This is to certify that Mr/Miss. **THIRUMANI SWETHA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0034.

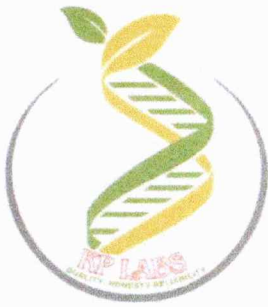
During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.


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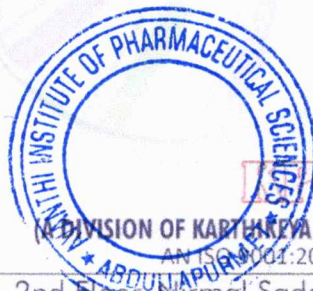
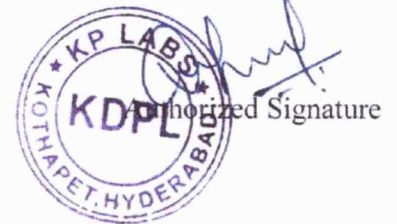
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This is to certify that Mr/Miss. **VADNALA SAIKRISHNA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GNIR0035.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.

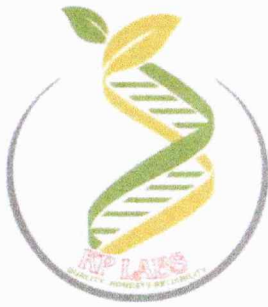


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This is to certify that Mr/Miss. **YELLA RISHIKESH DEVIDAS** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0036.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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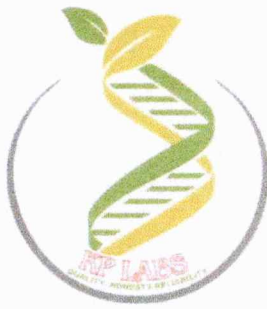
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This is to certify that Mr/Miss. **BHEEMISHETTI KALYANI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GNIR0037.

During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

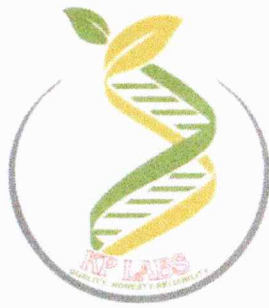
During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.


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This is to certify that Mr/Miss. **GADDAM SHIREESHA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0039.

During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



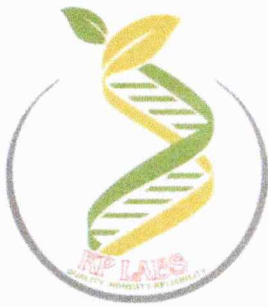
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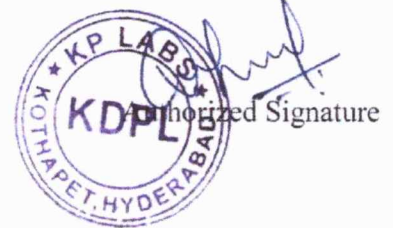
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This is to certify that Mr/Miss. **GUNDAGANI SRAVANI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0040.

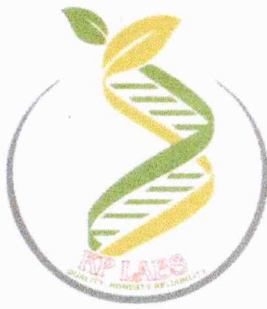
During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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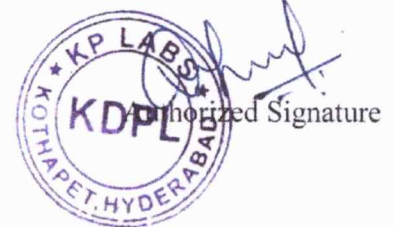
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This is to certify that Mr/Miss. **MEKARTHI PRAGATHI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0041.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



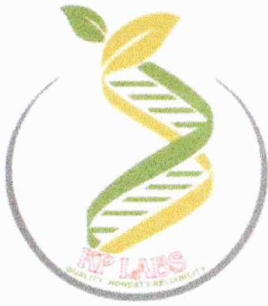
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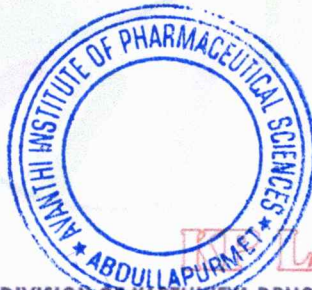
This is to certify that Mr/Miss. **MEKALA SANGAMITHRA** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0042.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.

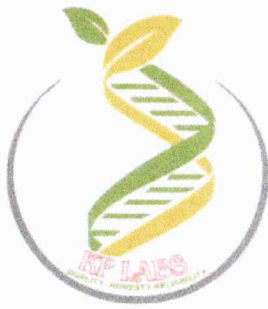


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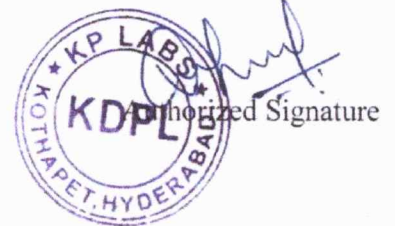
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This is to certify that Mr/Miss. **MADDELA SRIKANTH** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0043.

During the training period he/ she had interacted with Quality control, Quality Assurance& Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



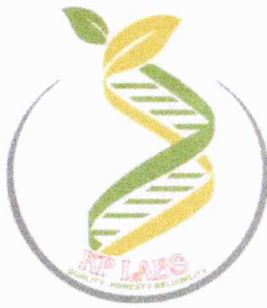
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This is to certify that Mr/Miss. **NALMELWAR AMANI ASHOK** is a confide student of "**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GNIR0044.

During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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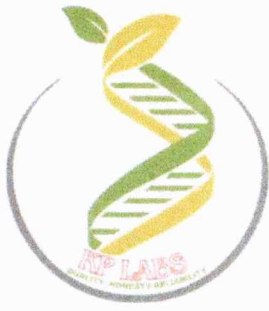
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Contact: 8885111163, 7207111163, 8143611163, 8019111163

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Date: 26-05-2019

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This is to certify that Mr/Miss. **PALLEMONI GOUTHAMI** is a confide student of "AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES" And he/she has undergone Industrial Training in our organization from 20-05-2019 to 26-05-2019, ns part of partial fulfillment of his/ her **B. PHARMACY** course bearing Hall Ticket no-16GN1R0045.

During the training period he/ she had interacted with Quality control, Quality Assurance & Production departments and acquired basic knowledge in these areas.

During this aforesaid period, we found him/ her hardworking, sincere and learning attitude.



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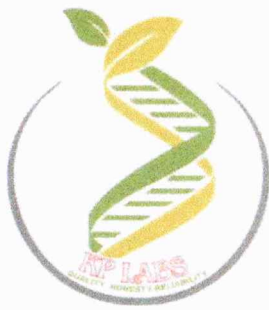
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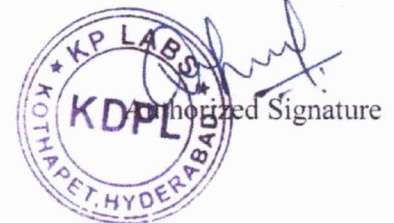
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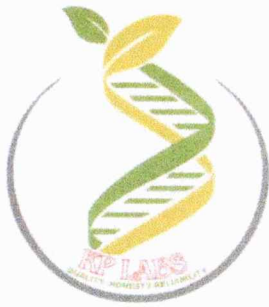
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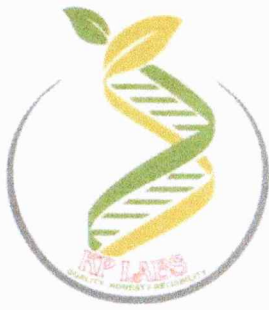
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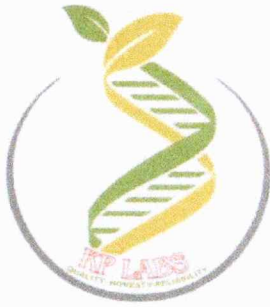


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This is to certify that Mr/Miss. **Pragathi Eda** bearing **HT.NO: 17GN1S0401** pursuing his/her **M.Pharmacy** in **AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES** he/she carried out his/her project work in our Organization entitled "**SIMULTANEOUS ESTIMATION OF UV SPECTROSCOPIC AND METHOD DEVELOPMENT AND VALIDATION FOR CLOFIBRATE AND TOLBUTAMIDE BY RP-HPLC**" in the department of Pharmaceutics from **20 March 2019 to 10 March 2019**.

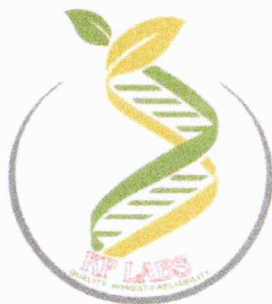
During his/her tenure he/she was sincere, hardworking and punctual in his/her Project work.

We wish his/her future career.



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20	Ashu Mishra	15UNIR0005		✓		
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22	B Ramesh	15UNIR0007	✓			
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84	17GNIR0016	E. Laxmi	✓			



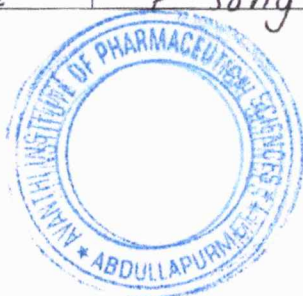
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29	18GNIR0047	Shodanalatha	✓			
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38	18GNIR0033	P. Taharabhe	✓			
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52	Kvaishakh mahadwar	17GNIR0023	✓			
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61	Mudanath ninad	17GNIR0032		✓		
62	Nakuranti Manika	17GNIR0033	✓			
63	Padala sairee	17GNIR0034	✓			
64	Panjala raghavendra	17GNIR0035	✓			
65	Pendyala sushtha	17GNIR0036	✓			
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81	Ramati jashwanth	17GNIR0052	✓			
82	Bardari sandeep	17GNIR0053	✓			
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7	15GN1R0011	B. VIJAYA		✓		
8	15GN1R0012	B. DIVYA		✓		
9	15GN1R0013	B. Raviteja	✓			
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11	15GN1R0015	Sailaja	✓	✓		
12	15GN1R0018	Soujanya	✓			
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17	15GN1R0024	S. Sravan Kumar	✓			
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21	15GN1R0031	G. Ramesh	✓			
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23	15GN1R0034	Sindhujha		✓		
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25	15GN1R0037	K. Sindhu	✓			
26	15GN1R0038	K. Mounika	✓			
27	15GN1R0039	K. Priyanka		✓		
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29	15GN1R0045	N. Sravanthi	✓			
30	15GN1R0047	Naveen Thapa		✓		
31	15GN1R0051	P. Pravalika	✓			
32	15GN1R0053	P. Usha Sri		✓		
33	15GN1R0054	P. Venela	✓			
34	15GN1R0055	S. Ramu		✓		
35	15GN1R0057	S. Sravani	✓			
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43	15GIN1R0065	Y. kalpana	✓			
44	15GIN1R0066	Sowmya sri		✓		
45	15GIN1R0067	C.H. Nikhil	✓			
46	15GIN1R0068	Sumanjali	✓			
47	15GIN1R0069	G. Sathyavathi	✓	✓		
48	15GIN1R0070	J. CHUNKI		✓		
49	15GIN1R0072	Rachana singh	✓			
50	15GIN1R0073	KIRAN MAL		✓		
51	15GIN1R0074	R. Bhavani	✓			
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Research Article



Formulation and Evaluation of Immediate Release Tablets of Topiramate Using Croscarmellose Sodium

Kanhu Charan Panda¹, Chinmaya Keshari Sahoo², Jimidi Bhaskar³, Ch.Swati³, T.Madhuri, D. Venkata Ramana⁴

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ABSTRACT

The objective of the present study was to develop immediate release tablets (IRT) of topiramate using different concentrations of croscarmellose sodium (CCS) as superdisintegrant for the treatment of epilepsy. Four different formulations of IRT were prepared using wet granulation method. Different pre compression and post compression characterization of tablet was carried out. In vitro drug release studies were carried out in USP II paddle type dissolution apparatus for different formulation and the batch containing 7.5 mg of CCS per tablet gave maximum amount of drug release of 93.96% at the end of 50 mins. Drug and excipients compatibility studies were carried out through FTIR spectroscopy. FTIR spectroscopy studies revealed that there is no interaction between drug and different excipients used in formulation. Short term stability studies (at 40±2°C/75±5% RH) on the best formulation indicated that there was no significant change in release profile and drug content after a period of one to three month. Among all the formulations, F4 formulation was finally optimized. It is fulfilling all the parameters satisfactorily. It has shown excellent thickness, hardness, in vitro disintegration and in vitro dissolution.

Keywords: IRT, topiramate, CCS, in vitro drug release study, FTIR spectroscopy.

INTRODUCTION

The oral route¹ of drug administration is one of the popular routes of drug administration. The tablets are still the most commonly used dosage forms due to its continuous development and implementation of innovative ideas to overcome the basic shortcomings of the existing formulations. The advances in drug delivery systems for designing dosage forms like IRTs for convenient to be manufactured and administered free side effects, and enhance bioavailability² so as to achieve better patient compliance. IRT are most commonly formulated when rapid response is required. Super disintegrant is the vital component along with various common excipients like diluents, binder, lubricants, glidant etc used for the preparation of IRT. Immediate release drug delivery³ is desirable for drugs having long biological half life, high bioavailability, lower clearance and lower elimination half life. For IRT the drug is intended to be released rapidly after administration, or the tablet is dissolved and administered as a solution. IRT tablets are those tablets which are designed to disintegrate⁴ and release their medication.

Topiramate⁵ is a sulfamate substituted monosaccharide has been approved for use as an antiepileptic agent, as an adjuvant therapy for patients with partial onset seizures or primary generalized tonic-clonic seizures, and for the prevention of migraine. Topiramate blocks voltage-dependent sodium channels, augments the activity of the neurotransmitter gamma amino butyrate at some subtypes of the GABA-A receptor. Absorption of Topiramate is rapid, with peak plasma concentrations

occurring at approximately 2 hours. The relative bioavailability of Topiramate from the tablet formulation is about 80% compared to a solution. The average elimination half-life of Topiramate is approximately 22 hours. In the present study IRT of topiramate were designed using wet granulation method using various excipients and croscarmellose sodium as natural super disintegrants with prime objective arriving of a cost effective product.

MATERIALS AND METHODS

Materials

Topiramate was gifted by Zyclus Cadila, Ahmedabad, and croscarmellose sodium from Dow chemical company. Magnesium stearate, talc, micro crystalline cellulose (Avicel 101, Avicel 102), and potassium dihydrogen-o-phosphate were procured from SD fine chem. Ltd Mumbai. Sodium hydroxide and CCS were procured from Qualigens fine chemicals Mumbai.

Drug excipient studies

Fourier Transform Infrared Spectroscopy (FTIR)

In this method individual samples as well as the mixture of drug and excipients were ground mixed thoroughly with potassium bromide (1:100) for 3-5 mins in a mortar and compressed into disc by applying pressure of 5 tons for 5 mins in hydraulic press. The pellet was kept in the sample holder and scanned from 4000 to 400 cm⁻¹ in FTIR spectrophotometer.



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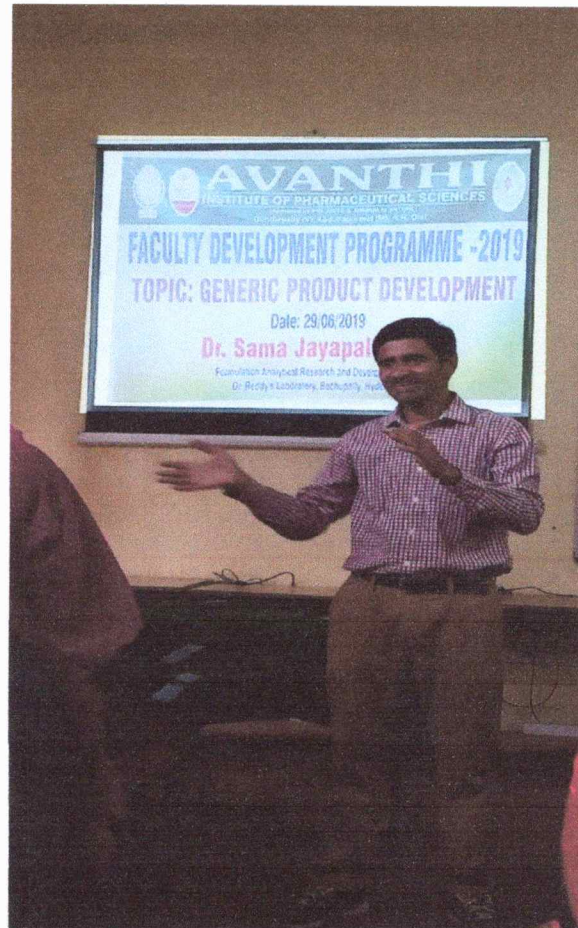
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Faculty Development Programme - 2019

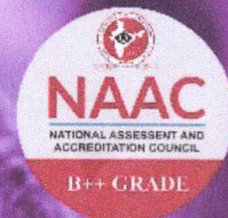


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Student Co-ordinators

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