

SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY, UMRACH

Webinar Report (Guest Lecture)

Date: Saturday, 07 August, 2021.

Topic: “Fundamentals of Liquid Chromatography-Simplifying the Science of Separation by HPLC”.

Resource Person – Mr. Gunvant Yadav. Application Specialist – Pharma, Spinco Biotech Pvt Ltd, Ahmedabad, Gujarat, India

No. of Participants: 452

Summary of Session:

IIC and IQAC of Shree Naranjibhai Lalbhai Patel College of Pharmacy, Vidyabharti Trust, Umraha Organize an online webinar on - "Fundamentals of Liquid Chromatography-Simplifying the Science of Separation by HPLC". The webinar was started at 11:00 AM with a welcome speech by Dr. Dikshit C. Modi, Associate Professor, SNLPCP, UMRACH. He welcomed the speaker of the event Mr. Gunvant Yadav. Application Specialist – Pharma, Spinco Biotech Pvt Ltd, Ahmedabad and Dr. Dhiren P. Shah – Principal of SNLPCP, Faculties and Participants of the event.

The Upright Speaker Mr. Gunvant Yadav has explained the basic fundamentals of chromatography and the types of chromatography. He has covered all the aspects of chromatography which are importantly needed for the research point of view and industrial aspects. He has also given information on utilization of liquid chromatography in separations techniques. Also, he has given information on various instruments used for the liquid chromatography recently used in the industries. Overall, he has covered all the topics related to the liquid chromatography in simplifying separation by using HPLC. He has presented everything by good diagrams and virtual models too. At the end of session various queries were put forward by the participants. Mr. Gunvant Yadav has answered the questions of participants regarding chromatography and HPLC in separation techniques.

To conclude the session, Dr. Rumi Shah showed his gratitude and appreciation to Mr. Gunvant Yadav for his valuable time. SNLPCP is thankful to Mr. Gunvant Yadav - Speaker and participants.

SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY, UMRACH



MANAGED BY VIDYABHARTI TRUST, UMRACH

(APPROVED BY AICTE & PHARMACY COUNCIL OF INDIA - NEW DELHI, AFFILIATED TO GTU, AHMEDABAD)

Organizes Webinar on

Fundamentals of Liquid Chromatography- Simplifying the Science of Separation by HPLC



Mr. Gunvant Yadav
Application specialist,
Pharma Spinco Biotech Pvt. Ltd.

7 AUG
2021
SATURDAY

11 AM -12: 30 PM



Dr. Dhiren Shah
(Convener)
Principal, SNLPCP



Dr. Dixit Modi
(Co-ordinator)
Associate professor,
SNLPCP



Dr. Runit Shah
(Co-ordinator)
Associate professor,
SNLPCP

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SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY
(Vidyabharti Trust Institution, Umrach)
Approved by AICTE, New Delhi and Affiliated to GTU, Ahmedabad.

Organized Webinar on
**"Fundamentals of Liquid Chromatography-
Simplifying the Science of Separation
by HPLC"**
Date: 7th August 2021

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Dr. Dixit Modi

Dr. Runit Shah

Mr. Gunvant Yadav

Dr. Ashok Akabari

Dr. Biren Shah

Participants: 142 Q&A Chat Share Screen Raise Hand Pause/Stop Recording Leave

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CHROMATOGRAPHY

Light leaf
Heavy stone

Water flow

Base

Stationary phase

Mobile phase

Mr. Gunvant Yadav

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Recording...

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Flow Diagram of HPLC

Eluent (mobile phase)

Degasser

Pump

Sample injection unit (injector)

Column

Column oven (thermostatic column chamber)

Detector

Drain

Data processor

Mr. Gunvant Yadav

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Method Development Strategy

- Literature
 - Scientific Journals
 - Application databases on the internet,
 - Chemical attributes of the analytes
 - Functional groups
 - Acid/base properties



Separation Goals



Goal	Comment
Resolution	Precise and rugged quantitative analysis requires $R_s > 1.5$
Separation time	< 5-10 min is desirable for routine procedures
Quantitation	RSD < 1% for assays; < 5% for trace analyses
Pressure	< 150 kgf/cm ² is desirable. < 200 kgf/cm ² is usually essential
Peak shape	Narrow peaks for large signal to noise ratio are desirable
Solvent consumption	Minimum mobile phase usage per run is desirable

Talking Mr. Gunvant Yadav

