

## TRAINING IN PHARMACEUTICAL PRODUCT ANALYSIS AND QUALITY CONTROL

The overall goal of the training program “ BIO-PHARMACEUTICAL ANALYSIS AND QUALITY CONTROL “ is to provide the trainee with the skills they will need to provide appropriate pharmaceutical product testing and management for healthcare industry.

### SCOPE OF THE TRAINING -

**Analytical Pharmaceutical Chemist :** Analytical pharmaceutical chemists, develop and apply stringent methods of chemical analysis to the product before it goes on the market, ensuring that the drug is pure

**Quality Control Analyst :** A QC chemist, or quality control chemist, utilizes chemistry lab skills to test and measure materials, generally in a manufacturing or pharmaceutical field.

### UNIT – 1 General Lab Procedures:

Preparation of Buffers, Acid-Base Equilibrium, pH, Buffer System, Charge, pI and pKa, Value, Quantitative determination of pharmaceuticals .

### UNIT – 2 Bio-pharmaceutical Assay:

Qualitative assay of carbohydrate: Molisch, Fehling, Benedict, Barfoed, mucic acid, Iodine, Seliwanoff, Bial, Osazone Quantitative determination of carbohydrate , Determination of disaccharide, Lactose , Sucrose , Determination of Lipids; triglycerides , Test of Fatty Acids , Determination of Vitamin C , Determination of Vitamin E , Determination of serum phosphate .

**Assay For Herbals -** Assay of Alkaloids, Flavonoids, Glycosides, Free Glucose, tannins, Anthraquinone, Saponins, Toxicity Analysis

### UNIT 3 - Microbial Analysis of Bio-Pharmaceuticals

Microbial Analysis for different bio-pharmaceutical Products , Biochemical Characterization and data analysis , Microbial Detection through PCR ( 16S rDNA)

### UNIT 4 – Analysis through Spectroscopy :

Test of Quantitative & Qualitative analysis of bio-pharmaceutical products : Test of aspirin, Test of paracetamol , Test of Diclofanac Sodium , antioxidant assay of herbal drug etc

### **UNIT 5 – Chemical Assay for Quality Analysis**

End point detection , Moisture content Analysis , Analysis of inorganic salts , Dissolved Oxygen , Total Dissolved Solids , Viscosity etc.

### **UNIT 6 – Analysis of Samples by HPLC & Gas Chromatography**

Analysis through chromatography Techniques: Thin Layer Chromatography, High Pressure Liquid Chromatography (HPLC) and Gas Chromatography (GC)

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#### **Facilities Required for Unit :**

Refrigerated Centrifuge , Spectrophotometer ,Vortex Mixer , Dry Bath , Water Bath , auto titrator , pH meter , Conductivity Meter , Bio-Safety Cabinet , BOD Incubator , Thermo Cycler etc. Karl Fisher Titrator , Ion Meter , D.O. Meter , TDS Meter , Viscometer , Refractive Index Meter , SPME Extraction , Centrifugation , Microwave Digestion , Column Chromatography -

HPLC , Gas Chromatography , SPME Extraction Columns , TLC Plate Viewer & Documentation Unit , Desiccator , TLC Sprayer etc.

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**Research Elective For Project Work :** Participants may choose one area of interest -

- **Analysis of Synthetic Drug**
- **Analysis of Herbal Drug**

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### **INFORMATION TO APPLY FOR THE PROGRAM**

#### **WHO MAY JOIN ?**

Students From Biotechnology , Microbiology , Biochemistry , Life Science , Chemistry , Pharmacy , Forensic Science , Food Science etc.

**SELECTION CRITERIA :** First come first serve

**FEE FOR TRAINING PROGRAM :** Rs 10,000 / - ( For 30 Days Training )  
Rs 12,000 /- ( For 45 Days Training + Project Work )

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**APPROVAL OF THE TRAINING PROGRAM :**

This training program is designed and approved by the organization Scientific Advisory Committee.

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**HOW TO APPLY –**

**Details of Documents :**

1. Any identity proof along with University / College Identity Card
2. Filled Registration form of **Allele Life Sciences Pvt. Ltd.** with photograph
2. Registration fee will be Rs 1000 / -
3. Registration fee may be paid through cheque / Demand Draft or On Line Transfer :

Cheque or Demand Draft will be in favor of “ **Allele Life Sciences Pvt. Ltd.** ” payable at Noida or Service Branch

**Details for on line Payment :**

Kindly write us for bank or UPI Details at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com)

**For on Line Registration Send scan copy of all documents at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com)**

**Note : Kindly send the receipt of the registration fee along with scan documents.**

**Those who pay through cheque or DD send all documents at following address :**

**Allele Life Sciences Pvt. Ltd.**

C - 59 , Sector - 10 , Noida

Uttar Pradesh - 201301 , IN

Ph.No : + 91-9891179928

**Note :** We will send confirmation at your email address withi 7 days.

**For Any other query mail at : [allelelifesciences@gmail.com](mailto:allelelifesciences@gmail.com) or Call at – 09891179928**

**Registration Form is Given at nest page**

## Registration Form

Name of Training Program :

Expected Date of Joining :

### Candidate Details :

Name: Mr./Ms. \_\_\_\_\_

Father's Name: \_\_\_\_\_

Address : \_\_\_\_\_

Contact No. : \_\_\_\_\_ Mobile No.: \_\_\_\_\_

Email: \_\_\_\_\_

Institution -

Qualification -

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### Terms & Conditions :

1. The admission to training / internship programs will be confirmed after the payment of registration fee along with documents.
2. The registration fee deposited is completely non refundable.
3. The industrial training fee includes the cost of chemical , reagents and study material costs.
4. I will deposit the service charges as decided by the company at the time of joining date of training program.
5. Students have to bear their own boarding/lodging /conveyance charges. We facilitate students in finding proper paying guest arrangements.
6. The trainees will have to bring their own lab coat and wear them all the time in the campus.
7. Trainees are selected on first come first serve basis
8. Trainees will maintain adequate discipline inside the lab premises.

### DECLARATION

I \_\_\_\_\_ from \_\_\_\_\_

hereby declare that all statement/information given in the application form are true to the best of my knowledge and belief . I will strictly abide by the norms/lab etiquette during the training

Signature

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**For office use only**