

A Study on the Manufacturing of Medicines

Report on Internship Training submitted to Periyar university, Salem in partial fulfilment
of requirement for the award of the degree of

BACHELOR OF CHEMISTRY

Submitted by

NAME : NETHRA. M

REG.NO : C21UG152CHE025

Under the Supervision of

PUSHPAKARAN.S

Medibest pharma Pvt. Ltd



DEPARTMENT OF CHEMISTRY

ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR WOMEN, HOSUR

(Affiliated to Periyar University , Salem)



PERIYAR UNIVERSITY

INTERNSHIP TRAINING REPORT

1.	Name of the Candidate	Nethra. M
2.	University Examination Registration Number	C21UG152CHE025
3.	Name of the college	St. Joseph's College of Arts And Science For Women, hosur
4.	Name of the Department/Degree	Chemistry/ B.Sc Chemistry
5.	Name of the industry/ Institute in which for internship Training Undergone	Medibest Pharma Pvt. Ltd
6.	Guide / Supervisor under whom the training undertaken	Pushpakaran.S
7.	Title of the Training	Manufacturing Of Medicines
8.	Brief output training (not more than 2 Pages)	Annexure Enclosed
9.	Conclusion	We Got Knowledge About Qc And Its Role In The Field Of Pharmaceutical Products
10.	Outcome of the training	To Ensure That A Product Manufactured

Submitted for B.Sc., Internship Examination held on 14.11.2023 at the Department of chemistry, St joseph' college of arts and science for women, Hosur.

PRINCIPAL

ST. JOSEPH'S COLLEGE OF ARTS
& SCIENCE FOR WOMEN

Mookandapalli, Sipcot,
HOSUR - 635 126, Krishnagiri - Dist.
Principal

Nethra M
Signature of the
Student

C. Myth
Signature of the
Guide

S. V. John
Head of the
Department

Examiner:

1.

2.



MEDIBEST PHARMA PVT. LTD.,

Regd. Office / Works : N-31, Sidco Industrial Estate, Hosur - 635 126 (T.N.)

Phone : 04344 - 276617 / 276393 , Mobile : 9487657628

E-mail : medibest06@gmail.com

URL : www.medibestpharma.com

CIN : U24231TZ1988PTC003996



TO WHOM SO EVER IT MAY CONCERN

This is to certify that Miss. NETHRA .M (Registration No. C21UG152CHE025) Studying in IInd Year B.Sc Chemistry in St.Joseph's College of Arts and Science for Women, Hosur, Tamil Nadu has under gone Internship Training in our organization from 23/01/2023 to 05/02/2023

Her Performance was highly commended

For MEDIBEST PHARMA PVT.LTD

Authorized Signatory

INTRODUCTION

An internship is an experimental learning opportunity that offers an invaluable chance for students to network and build crucial professional connections before they even graduate. For some students, it is a stepping – stone to bonus opportunities within the same organization, including a full- time job.

Am I am glad that I have got the opportunity to learn the new things from MEDIBEST PHARMA PRIVATE LIMITED which is known for its preparation and supplying of raw materials.

ABSTRACT

Medibest pharma private limited is a Non -govt company, incorporated on 31 July, 1985. The various pharmaceutical and medical related products are being produced in the company .I have undergone training in the Medibest Pharma Private Limited., for a period of 14 days. All products are formulated after internal studies for stability. I got knowledge about QC and pharmaceutical products

SECTIONS

The industry has three sections the

Production

Packing

Quality control

PRODUCTION

The drugs are coming from the other industries. All drugs are arrival in the powder form. The first stage is taking a small amount of drugs send to the quality control [QC] department in the QC department they check the drugs quality. if the drug quality is good, they send the drugs in the production department.

For Example, we take the product of paracetamol

For the preparation of paracetamol tablet the following components are used.

Paracetamol,SSG (sodium starch glycolate) , Starch

These will be in the powder form they are mixed in the RMG.

RAPID MIXTURE GRANULATED: The rapid mixture granulated is use to mix the drug, the binding part will be prepared and it contain s water, starch, pvp [polyvinyl pyrrolidone] these will be in the form of paste. The drugs are mix 5to10 minutes and now left for the RMG mixture to the multimill. **MULTIMILL:** Multimill is used to crushing the drugs to small and even. It will become a granule form .

DRYER: After this, the mixture will be kept in the MBPL drying chart at particular temperature, it is dried and after that it will be allowed into the sifter. And then shifter and lubricant process.

BMR [Batch Manufacturing Record]

In the compression section BMR is important because it records the products quality and quantity.

Name of the product, IP [Indian pharmacopoeia], Batch No, Batch size, Rotary tablet, Punches, De-duster, Collecting drums [number of drums], Average weight, Thickness [using Vernier caliper], Hardness [Kg/c], Disintegrate [friability [120 rotation]

PACKING

There are four types of packing

- Loose packing
 - Blister packing
 - Strip packing
 - Aluminum packing
-
- ❖ **LOOSE PACKING:** The tablets are packed in plastic cover in a particular amount.
 - ❖ **BLISTER PACKING:** In blister packing, one side is covered with Aluminium and the other side with Plastic cover.
 - ❖ **STRIP PACKING:** It is a type of packing where product is enclosed between two heat-sealable Aluminium sheet. It can be aluminium foil, polyethylene etc.
 - ❖ **ALU ALU PACKING:** Alu Alu packing is for aluminium Logic Unit {ALU} It uses the aluminium foil and it's also called as cold form blisters.

QC [QUALITY CONTROL]

It is the first and the last process in the production of tablets. It assumes that the final product is quality and are standard. For the quality control, the raw material and the final product is checked.

DISSOLUTION TESTER

For the Dissolution Tester machine is used and the machine company name is Sortex SDT. The average weight is 572mg [paracetamol]. The disintegration should not be more than 15 minutes. The dissolution tester contains six baskets in the six baskets filling the buffer solution and each basket put one tablet for testing. One minute will have 50 rotation and for one batch 30 minutes and the basket contain buffer solution. They have variety of tablets so each tablet uses the different types of buffer solutions. They use the buffer solution in the PH Levels. After the dissolution process, pure form of tablets is obtained.

CONCLUSION

Overall, internship is a really good program. It helps to enhance and develop my skills, abilities, and knowledge. It was a good experience and memories as not only I have gained experience, but also new friends and knowledge about QC and its role in the field of pharmaceutical products.