

# **A STUDY ON THE MANUFACTURING OF VIALS AND AMPULES**

Report on internship training submitted to periyar university, salem in partial  
fulfillment of requirements for the award of the degree of

## **BACHELOR OF CHEMISTRY**

Submitted by

**NAME : AKSHAYA.V**

**REG.NO : C21UG152CHE002**

Under the supervision of

**Mr.Sridhar**

**MAIVA 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	<b>Akshaya.V</b>
2.	University Examination Registration Number	<b>C21UG152CHE002</b>
3.	Name of the college	<b>St.joseph's college of arts and science for women, Hosur</b>
4.	Name of the Department/Degree	<b>Chemistry/ B.Sc., chemistry</b>
5.	Name of the industry/ Institute in which for internship Training Undergone	<b>Maiva pharma pvt ltd...</b>
6.	Guide / Supervisor under whom the training undertaken	<b>Mr.Sridhar</b>
7.	Title of the Training	<b>Manufacturing of vials and ampules</b>
8.	Brief output training (not more than 2 Pages)	<b>Annexure Enclosed</b>
9.	Conclusion	<b>Enclosed</b>
10.	Outcome of the training	To ensure that a product manufactured met the specification

Submitted for B.Sc., Internship Examination held on 14.11.2023 at the Department of chemistry, St.Joseph's College of Arts and Science for Women, Hosur

*Akshaya.V*  
Signature of the Student

*K. Laga*  
Signature of the Guide

*S.V. Jhanya*  
Head of the Department

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Principal

Examiner:

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Email: info@maivapharma.com | Web: www.maivapharma.com  
CIN: U24231KA1993PTC013976

Ref: MAIVA/HR/IP-TR/2023  
Date: 06<sup>th</sup> Feb 2023

**CERTIFICATE**

This is to certify that **Ms.Akshaya.V** – Reg No.C21UG152CHE002, a student of Second Year B.Sc (Chemistry), of St.Joseph's College of Arts and Science for Women, Hosur, has done her Internship training at our Organization for the period from 23.01.2023 to 06.02.2023.

During her training period with us, her character and conduct was found good.

We wish her all the best in her future endeavor.

For MAIVA PHARMA PVT. LTD.

  
**G.KARTHI,**  
**SENIOR MANAGER - HR & IR.**

## Manufacturing of Vials and Ampules

### INTRODUCTION

The pharmaceutical industry is defined as the discovery, development, and manufacture of the drugs and medications it's widespread including research chemicals, and the regulations and involvement of government agencies. The pharmaceutical industry markets drugs or pharmaceutical drugs for use as medication to be administered to patients with aim of cure them . pharmaceutical company may deal in generic or brand medication and medical devices. they are subject to a variety of laws and regulations that govern the partnering, testing, safety and marketing of drugs.

### ABSTRACT :-

Maiva offers fully integrated development, manufacturing and commercialization of pharmaceutical products from the same location. Starting from formulation development, exhibit batches manufacturing, stability studies, dossier filing and commercial supplies. We help customers accelerate time to market, reduce development cost and provide flexibility to manufacture parenteral drug products in liquid and lyophilized dosage form.

### METHODOLOGY :-

Production: Vial line 1 Capacity: 36 Million vials/year, Batch size: 15 to 1000 Lit, Aseptic and Terminal sterilization Ampoule line: Capacity: 72 Million ampoules/year, Batch size:



15 to 400Lit, Aseptic and Terminal sterilization

## DISCUSSION :-

**QUALITY ASSURANCE :** Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products

**QUALITY CONTROL:** The main responsibility of this department is to ensure the quality of the product which is the Degree of Excellence for Use. Qc in which they prepare chemicals for drugs. bulk orders are made in this department .

**LABELLING:** The label should state: Name of the preparation  
Quantity of the preparation  
Manufacturing licensing number  
Batch number- Date of manufacturing- Date of expiry- Storage condition- Retail price- Manufacturing address- Printed label storage room.

**PACKING:** Packing is enclosing or protecting products for distribution, storage, sale, and use. After that completion of labeling the secondary packing is carried by respective department. After packing the products are stored in the warehousing for sales

## CONCLUSION:

Through internship training at MAIVA Hosur a clear knowledge has been obtained about the various stages involved in the manufacturing types of injectables and drugs filling. It was indeed a very exciting and a interesting training to attend.

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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 : DEEPIKA.S**

**REG.NO : C21UG152CHE009**

Under the Supervision of

**Mr.SRIDHAR**

Maiva Pharma PVT Ltd, Hosur.



**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	<b>Deepika.S</b>
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4.	Name of the Department/Degree	<b>Chemistry/B.sc.,Chemistry</b>
5.	Name of the industry/ Institute in which for internship Training Undergone	<b>Maiva Pharma Pvt Ltd,Hosur</b>
6.	Guide / Supervisor under whom the training undertaken	<b>Mr.Sridhar</b>
7.	Title of the Training	<b>Manufacturing of Vials send Ampules</b>
8.	Brief output training (not more than 2 Pages)	<b>Annexure Enclosed</b>
9.	Conclusion	<b>The Production of vials and sterility of the vials and ampules</b>
10.	Outcome of the training	<b>To ensure that the product manufactured met the specification</b>

Submitted for B.Sc., Internship Examination held on 14/11/2023 at the Department of Chemistry, St.Joseph's College Of Arts And Science for Women , Hosur.

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**& SCIENCE FOR WOMEN**  
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HOSUR, 635 126, Krishnagiri-Dist.  
**Principal**

**Signature of the**  
**Student**

**Signature of the**  
**Guide**

**Head of the**  
**Department**

**Examiner:**

1.

2.



## **MAIVA PHARMA PVT LTD**

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CIN: U24231KA1993PTC013976

Ref: MAIVA/HR/IP-TR/2023

Date: 06<sup>th</sup> Feb 2023

### **CERTIFICATE**

This is to certify that **Ms.Deepika.S – Reg No.C21UG152CHE009**, a student of Second Year B.Sc (Chemistry), of St.Joseph's College of Arts and Science for Women, Hosur, has done her Internship training at our Organization for the period from 23.01.2023 to 06.02.2023.

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We wish her all the best in her future endeavor.

For **MAIVA PHARMA PVT. LTD.**

  
**G.KARTHI,**  
**SENIOR MANAGER - HR & IR.**



## **INTRODUCTION:-**

This internship report documents my immersive experience as an Intern at MAIVA PHARMA PVT LTD. I had the privilege of working within the dynamic and highly-regulated pharmaceutical industry, gaining insights into its multifaceted operations and contributing to the company's mission of improving global healthcare. Throughout this report, I will provide an in-depth look into the pharmaceutical industry, the specific role I undertook, the skills and knowledge I acquired, and the impact of my contributions to the organization.

## **ABSTRACT:-**

The various pharmaceuticals and medical related products are being produced in the company. I have learned about the Injectable manufacturing process and Vial fillings, which is to be their main Production. The staffs working there were entirely altruistic and they don't hesitate to teach us about the company.

- I had given an Internship program for 15 days. They have given the demonstration on the Production of Injectable manufacturing and Vial fillings. They have elucidated us very well.

- Each and every stage of manufacturing process and Vial fillings process explained in a proper manner.

## **METHODOLOGY :-**

Production: Vial line 1

Capacity: 36 Million vials/year Batch size: 15 to 1000Lit Aseptic and Terminal sterilization

Ampoule line

Capacity: 72 Million ampoules Vial washing : vials are fixed in vial washing machine then washing the vials using various solvent slice WFI Purified water.

PROCESS: Loading, recycled water, compressed air, purified water , water for injection, discharge.

/year Batch size: 15 to 400Lit Aseptic and Terminal sterilization

Vial line 2 with Lyophilizes

Capacity: 2.5 Million vials/year Batch Size: Upton 200 Lit Fill Volume: 1mL to 50mL Two 13 Sq. Lyophilizes

Vial Line 3

Capacity: 40 Million vials/year Batch size: 15 to 1,500 Lit Aseptic and Terminal sterilization

Vial washing : vials are fixed in vial washing machine then washing the vials using various solvent slice WFI Purified water

### **DISCUSSION:-**

#### **QUALITY ASSURANCE:-**

Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products for distribution and sale . Stability testing and evaluation of shelf-life of products .

#### **QUALITY CONTROL :-**

Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products for distribution and sale . Stability testing and evaluation shelf-life of products .

#### **PACKING AND LABELLING:-**

After evaluation of the parenteral preparation, the ampoules, vials are properly labeled and packed. The label should state: Name of the preparation- Quantity of the preparation Manufacturing licensing number-Batch number-Date of manufacturing- Date of expiry-Storage condition-Retail price-Manufacturing address-Printed label storage room. To label locker and print labels( for product labeling. Some materials should be maintained in the cool temperatures . Maintained – 5 degree Celsius. Packing is enclosing or protecting products for distribution, storage, sale, and use. After that completion of labeling the secondary packing is carried by respective department. After packing the products are stored in the warehousing for sale.

### **CONCLUSION:-**

Through internship training at MAIVA HOSUR a clear knowledge has been obtained about the various stages involved in the manufacturing types of injectable and drugs filling. It was indeed a very exciting and a interesting training to attend. I have developed a lot of practical knowledge during the process of training which would definitely help me in the future aspects and my career

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Report on internship training submitted to periyar university, salem in partial  
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## **BACHELOR OF CHEMISTRY**

Submitted by

**NAME : DEVIKA.G**

**REG.NO : C21UG152CHE011**

Under the supervision of

**Mr.Sridhar**

**MAIVA 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	<b>Devika.G</b>
2.	University Examination Registration Number	<b>C21UG152CHE011</b>
3.	Name of the college	<b>St.Joseph's college of arts and science for women, Hosur</b>
4.	Name of the Department/Degree	<b>Chemistry/ B.Sc., chemistry</b>
5.	Name of the industry/ Institute in which for internship Training Undergone	<b>Maiva pharma pvt ltd.,.</b>
6.	Guide / Supervisor under whom the training undertaken	<b>Mr.Sridhar</b>
7.	Title of the Training	<b>Manufacturing of vials and ampules</b>
8.	Brief output training (not more than 2 Pages)	<b>Annexure Enclosed</b>
9.	Conclusion	<b>Enclosed</b>
10.	Outcome of the training	<b>To ensure that a product manufactured met the specification</b>

Submitted for B.Sc., Internship Examination held on 14.11.2022 at the Department of chemistry, St. Joseph's College of arts and science for women, Hosur.

*Devika.G*  
Signature of the Student

*[Signature]*  
Signature of the Guide

*[Signature]*  
Head of the Department

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Principal

Examiner:

- 1.
- 2.



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CIN: U24231KA1993PTC013976

Ref: MAIVA/HR/IP-TR/2023

Date: 06<sup>th</sup> Feb 2023**CERTIFICATE**

This is to certify that **Ms.Devika.G – Reg No.C21UG152CHE011**, a student of Second Year B.Sc (Chemistry), of St.Joseph's College of Arts and Science for Women, Hosur, has done her Internship training at our Organization for the period from 23.01.2023 to 06.02.2023.

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For MAIVA PHARMA PVT. LTD.

  
**G.KARTHI,**  
**SENIOR MANAGER - HR & IR.**



# MAIVA PHARMA PVT LTD HOSUR

## INTRODUCTION:-

The Pharmaceutical Industry is defined as the discovery, development, and manufacture of drugs and medications it's widespread, including research chemical, and the regulation and involvement of government agencies. the pharmaceutical industry markets drugs or Pharmaceutical drugs for use as medication to be administered to patients with of cure them, vaccinated them or cure them. Pharmaceutical companies may deal in generic brand medications and medical devices, marketing of drugs.

## ABSTRACT

Maiva offers fully integrated development, manufacturing and commercialization of pharmaceutical products from the same location. Starting from formulation development, exhibit batches manufacturing, stability studies, dossier filing and commercial supplies. We help customers accelerate time to market, reduce development cost and provide flexibility to manufacture parenteral drug products in liquid and lyophilized dosage form.

## METHODOLOGY

Production: Vial line 1

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Vial Line 3

Capacity: 40 Million vials/year Batch size: 15 to 1,500 Lit Aseptic and Terminal sterilization

Vial washing : vials are fixed in vial washing machine then washing the vials using various solvent like WFI Purified water.

## DISCUSSION

**QUALITY ASSURANCE:** Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products for distribution and sale . Stability testing and evaluation of shelf-life of products .

**QUALITY CONTROL :** Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products for distribution and sale . Stability testing and evaluation of shelf-life of products .

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## CONCLUSION

Through internship training at MAIVA Hosur a clear knowledge has been obtained about the various stages involved in the manufacturing types of injectables and drugs filling..It was indeed a very exciting and a interesting training to attend.

I have developed a lot of practical knowledge during the process of training which would definitely help me in the future aspects and my career.

# **A STUDY ON QUALITY CONTROL OF RAW MATERIALS**

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 : KALA.R**

**REG.NO : C21UG152CHE018**

Under the Supervision of

**Mr. MOORTHY**

Maiva pharma pvt.ltd-Hosur



**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	KALA.R
2.	University Examination Registration Number	C21UG152CHE018
3.	Name of the college	ST. JOSEPH COLLEGE OF ARTS AND SCIENCE FOR WOMEN
4.	Name of the Department Degree	CHEMISTRY /B.SC CHEMISTRY
5.	Name of the industry/ Institute in which for internship Training Undergone	MAIVA PHARMA PVT LTD – HOSUR
6.	Guide / Supervisor under whom the training undertaken	MR. MOORTHY ( HEAD OF QC)
7.	Title of the Training	QUALITY CONTROL OF RAW MATERIALS
8.	Brief output training (not more than 2 Pages)	ANNEXURE ENCLOSED
9.	Conclusion	DETERMINING THE PERCENTAGE OF ASSAY OF RAW MATERIAL AND IMPROVE THE PRODUCT EFFICIENCY
10.	Outcome of the training	TO ENSURE THAT A PRODUCT MANUFACTURED (OR) SERVICE PROVIDED MET THE SPECIFICATION

Submitted for B.Sc., Internship Examination held on 14.11.2023 at the Department of B.sc chemistry, St Joseph's College Of Art's and science for women, Hosur.

*Kala.R*  
Signature of the  
Student

Examiner

1.

2.

*[Signature]*  
Signature of the  
Guide

*[Signature]*  
Head of the  
Department

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CIN: U24231KA1993PTC013978

Ref: MAIVA/HR/IP-TR/2023

Date: 06<sup>th</sup> Feb 2023

### **CERTIFICATE**

This is to certify that **Ms.Kala.R – Reg No.C21UG152CHE018**, a student of Second Year B.Sc (Chemistry), of St.Joseph's College of Arts and Science for Women, Hosur, has done her Internship training at our Organization for the period from 23.01.2023 to 06.02.2023.

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For **MAIVA PHARMA PVT. LTD.**

**G.KARTHI,**  
**SENIOR MANAGER - HR & IR.**



## **QUALITY CONTROL OF RAW MATERIALS**

### **INTRODUCTION**

I attend my internship program in Maiva pharma Pvt Ltd Hosur. I have learned the working and production of working their products that are proceed in large industrial scale.

### **ABSTRACT**

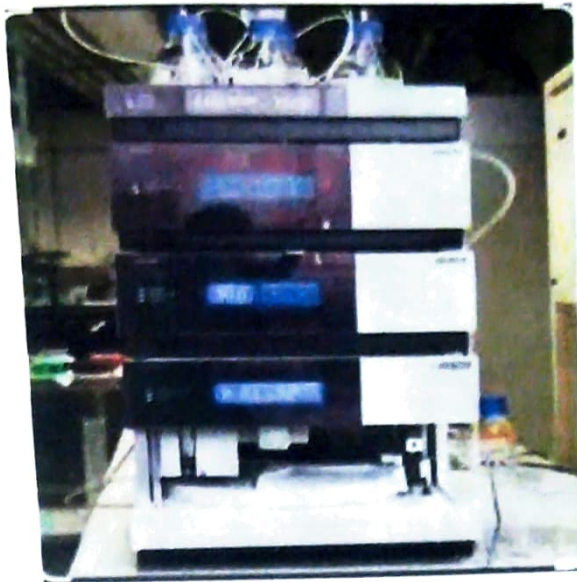
The various pharmaceuticals and medical related products are being proceed in the company . Most of their products are based on calcium, which makes them one of the largest manufacture in it. I have about quality control where they would test samples which is to be used in main production manufacturing unit and other places were maintenance with good contamination.

- The faculties and staffs working their were kind and didn't the site to teach us when asked about their products and other information regarding the production and the company.
- We were given internship program for two weeks. They gave demonstration on the working of instruments used for sampling .A representation of bulk production was also.

### **METHODOLOGY**

The primary health check was done before entering into their laboratory . Then they taught about their sampling technique in small quantities. If the samples passed the quality control their would reach the bulk production in the industry. They have a several equipment combination of supplements. The sample are tested which should be within the guideline to be implemented in further production.

- The QC is done for mostly all samples for obtaining the pure and correct combination of compounds to form the desired products.
- We were taught to do sampling by variation titration method. HPLC, TLC.



### DISCUSSION

I have learned about the primary sampling of compounds the bulk production to give the end products, sampling instruments including halogen moisturizer PH Meter, ultra violet, HPLC etc.

The process of production was also taught by the staffs.

- It involves the raw material used for desire products along with water is heated in reactor for 25 hrs at 80 c .
- Then PH value is noted and charcoal on the feed storage tank.
- The feed pump and spray dryer is used to extract the immediate products.

### CONCLUSION

My Overall experience in the internship program in Maiva pharma private limited. Helped me to gain new things , knowledge about the testing and manufacturing of the pharmaceuticals primarily calcium based products. The staffs were so helpful and taught about their Overall working in the industrial gave an idea about how pharma related companies function and produce their products. It was a new learning and would be helpful for my further career Development.

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## **BACHELOR OF CHEMISTRY**

Submitted by

**NAME : VISHNU PRIYA S**

**REG.NO : C21UG152CHE036**

Under the supervision

**MR. SRIDAR**

**MAIVA PHARMA PVT LTD**



**DEPARTMENT OF CHEMISTRY**

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

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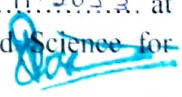


# PERIYAR UNIVERSITY

## INTERNSHIP TRAINING REPORT

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2.	University Examination Registration Number	<b>C21UG152CHE036</b>
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4.	Name of the Department/Degree	<b>Chemistry/ B.Sc., chemistry</b>
5.	Name of the industry/ Institute in which for internship Training Undergone	<b>Maiva Pharma pvt ltd,Hosur.</b>
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CIN: U24233KA1993PTC012876

Ref: MAIVA/HR/IP-TR/2023  
Date: 06<sup>th</sup> Feb 2023

**CERTIFICATE**

This is to certify that **Ms. Vishnu Priya.S** – Reg No. **C21UG152CHE036**, a student of Second Year B Sc (Chemistry), of St. Joseph's College of Arts and Science for Women, Hosur, has done her Internship training at our Organization for the period from 23.01.2023 to 06.02.2023.

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For MAIVA PHARMA PVT. LTD.

**G. KARTHI,**  
**SENIOR MANAGER - HR & IR.**



# Manufacturing of Vials and Ampules

## INTRODUCTION

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## METHODOLOGY

Production: Vial line 1 Capacity: 36 Million vials/year, Batch size: 15 to 1000 Lit, Aseptic and Terminal sterilization

## DISCUSSION

**QUALITY ASSURANCE :**Quality Assurance is an important part of Pharmaceutical manufacturing. It assures the quality of the products those are manufactured in manufacturing facility. Final release or rejection of every batch of Drug products

**QUALITY CONTROL:**The main responsibility of this department is to ensure the quality of the product which is the Degree of Excellence for Use.Qc in which they prepare chemicals for drugs.bulk orders are made in this department .

**LABELLING:** The label should state:Name of the preparation-Quantity of the preparationManufacturing licensing numberBatch number-Date of manufacturing.

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