

A STUDY ON THE QUALITY CONTROL OF RAW MATERIAL

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 : SUBHASHREE. M

REG.NO: C21UG152CHE032

Under the Supervision of

Mr. PRABHAKARAN

GLOBAL CALCIUM PRIVATE LIMITED, 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	Subhashree.M
2.	University Examination Registration Number	C21UG152CHE032
3.	Name of the college	St.Joseph's college of arts and science for women, Hosur.
4.	Name of the Department/Degree	B.sc.,Chemistry
5.	Name of the industry/ Institute in which for internship Training Undergone	Global Calcium Pvt.Ltd.
6.	Guide / Supervisor under whom the training undertaken	Mr. Prabhakaran
7.	Title of the Training	Quality checking of Raw materials
8.	Brief output training (not more than 2 Pages)	Annexure closed
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, Hosur.

Subhashree.M
Signature of the Student

S.V. Jhanya
Signature of the Guide

S.V. Jhanya
Head of the Department

PRINCIPAL
ST. JOSEPH'S COLLEGE OF ARTS
& SCIENCE FOR WOMEN
Mookandapalli, Sipcot,
HOSUR-635 126, Krishnagiri-Dist.
Principal

Examiner:

- 1.
- 2.

QUALITY CHECKING OF RAW MATERIALS

INTRODUCTION:

- I Attended my internship program in global calcium pvt.ltd,hosur.there I have learned the working and production of their products that are processed in large industrial scale.

ABSTRACT:

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

- The faculties and staffs working there they are kind and didn't hesitate to teach us when asked about their products and other informations 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.

METHEDOLOGY:

The primary health check was done before entering into their laboratory. Then they taught about their samplings, techniques in small quantities. They have several equipments which are used for different types of pharmaceutical production, to maintain its require combination supplements.

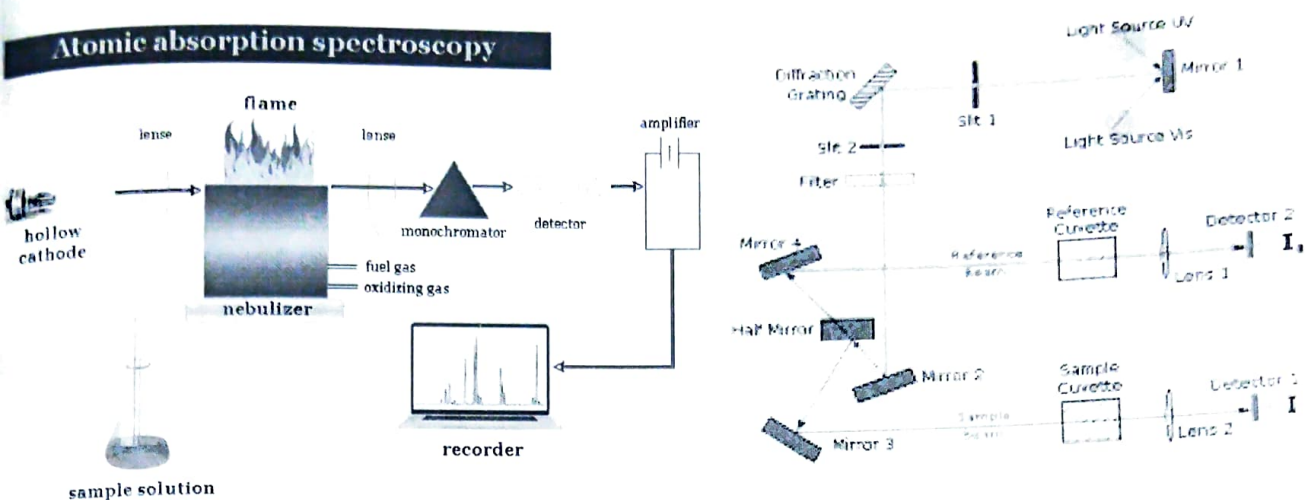
- Recipt of samples in the laboratory
- Prepare samples and set up instruments
- Run the test sample
- Verify system suitability
- Collect raw data and calculate results
- Out-of-specification results
- Report final result

We were taught to do the sampling by various titration methods. Example: redox titration, carl-fisher titration ,complexometric titration , ph meter.

INSTRUMENTATION:

We were learned about instrumentation of atomic adsorption spectrometer, ultra violet visible spectroscopy ,infrared spectroscopy ,hot air oven.

Atomic absorption spectroscopy



DISCUSSION :

I have learned about the primary sampling of compounds and the bulk production to give the end products and sampling instruments. It helps in obtaining the exact amount of metals and sample by systematic methods.

- It involves the raw materials used for desired products along with water. Is heated in reactor for 25 hours at 80 degree Celsius.
- Then the Ph value is noted and charcoal is added on further filtration is done it is moved to feed storage tank.
- The quality check is done with the pharmacopoeia and elemental analysis to check its composition of chemicals and impurities in them.

CONCLUSION

My overall experience in the internship programme in global calcium pvt.ltd helped me to gain new things, knowledge about the testing and manufacturing of the pharmaceuticals primarily calcium based products. The staff are so helpful and taught about their overall working in the industry gave an idea about how pharma related companies function and produce their products.

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Report on Internship Training submitted to Periyar university, Salem in partial fulfilment
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BACHELOR OF CHEMISTRY

Submitted by

NAME : VISHNAVI. B

REG.NO : C21UG152CHE035

Under the Supervision of

Mr.PRABHAKARAN

GLOBAL CALCIUM PRIVATE LIMITED,HOSUR



DEPARTMENT OF CHEMISTRY

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

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PERIYAR UNIVERSITY

INTERNSHIP TRAINING REPORT

1.	Name of the Candidate	Vishnavi. B
2.	University Examination Registration Number	C21UG152CHE035
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	Global calcium Pvt Ltd, Hosur
6.	Guide / Supervisor under whom the training undertaken	Mr. Prabhakaran
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 Chemistry, St. Joseph's college of Arts and Science for Women, Hosur. 635126

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Mandapalli, Sipcot,
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Principal

Signature of the
Student

Signature of the
Guide

Head of the
Department

Examiner:

1.

2.

04th February 2023

WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Vishnavi B (Reg.No.C21UG152CHE035) second year B.Sc. Chemistry student of St. Joseph's College of Arts and Science for Women, Hosur has successfully completed her Internship training in our company for the period from 23-01-23 to 04-02-23.

During this period, we found her sincere and diligent. We wish her all the very best in her future endeavors.

This certificate is issued for academic purpose.

For Global Calcium Pvt. Ltd. Unit-III


Balaji L

Manager – HR & Admin

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QUALITY CHECKING OF RAW MATERIALS

INTRODUCTION:

- ❖ I attended my internship program in Global calcium pvt Ltd, Hosur. There I have learned the quality checking and assurance of their products that are processed in large industrial scale.

ABSTRACT:

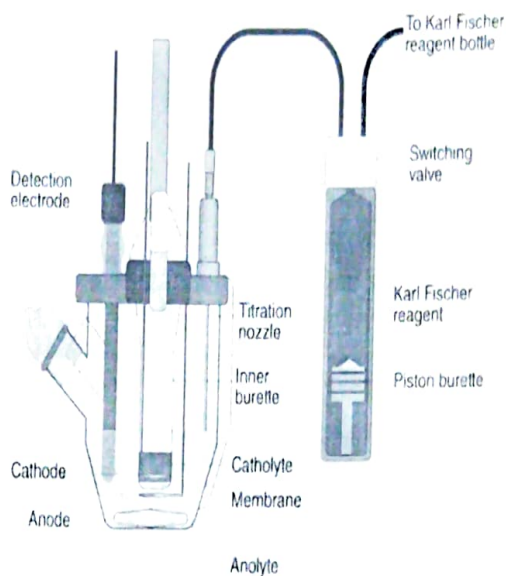
The various pharmaceutical and medical related products are being produced in the company. Most of their products are based on calcium, which makes them one of the largest manufacturer in it. I have learned about quality checking and quality assurance where they would test samples which is to be used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

- The faculties and staffs working there were kind and didn't hesitate 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 of bulk production was also explained.

METHODOLOGY:

The primary health check was done before entering into their laboratory. Then they taught about their sampling techniques in small quantities. If the samples passed the quality assurance then it would reach the bulk production in the industry. They have several equipment's which are used for different types of pharmaceutical production, to maintain its required combination of supplements. The samples are tested which should be within the guidelines to be implemented in further production.

- ✓ In quality control of samples by various titration methods were taught to do and specific list of titration method are redox titration, Complexometric titration, Karl Fischer titration etc..
- ✓ In the quality assurance mostly all samples for obtaining the pure and correct combination of compounds to form the desired products.



DISCUSSION:

- I have learned about the primary sampling of compounds and the bulk production to give the end products.
- sampling instruments including Halogen moisture analyser, PH Meter, ultra sonicator, HPLC, Atomic absorption spectrophotometer and fourier transform infrared spectrophotometer also many other are being used.
- It helps in obtaining the exact amount of metals in sample by the systematic methods.

CONCLUSION:

My overall experience in the internship program in global calcium private Ltd. 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. It was a new learning and would be helpful for my further career development.