



**Hands on training on
High Performance Liquid
Chromatography
(HPLC)
Workshop report**

January 6th & 7th, 2020

**MOUNT CARMEL COLLEGE, AUTOMONOUS
BANGALORE**

Workshop on hands on training on HPLC was organized by the Department of Biotechnology under the supervision of Dr Preetha Nair (HOD) and Dr Bannhi Das in collaboration with Auxochromofours solutions Pvt Ltd at Mount Carmel College, Autonomous, Bangalore on 6th and 7th January 2020.

The session was carried out by technical experts Dr Basavaraj H C, Dr. Chandrashekar and Ms. Shreyas Burji from Auxochromofours solutions Pvt Ltd. The workshop started with the brief introduction by Dr Chandrashekar wherein they introduced the students with the basics of HPLC and showed video's related to working of HPLC. The workshop was attended by all the M.sc and some B.sc students.



Day 1- After the basic introduction to HPLC students were divided in two where the 1st batch went for working in lab. The students learnt how to make standard solution and sample solution using deflazacort (i.e. crude and test sample). Then they prepared mobile phase using acetonitrile: water in 80: 20. Then the students were taught how to inject sample near sample port and how to work with the LC solution software. Then analysis of the chromatogram after individual sample injection was carried out. The 2nd batch was in an auditorium where they understood about basics of analytical techniques (spectrophotometry, chromatography), introduction to chromatography and types of chromatography.

Then the batches were interchanged and 2nd batch was given on hands training of the HPLC.



Day 2-On the second day of the workshop, initially there was a session on “HPLC Trouble Shooting: Tips and Tricks” by Dr. Chandrasekhar. He discussed in detail about the problems that can come while performing HPLC and how one can resolve those problems. He also gave a detailed note about different types of problems in different parts of the HPLC instrument and how to troubleshoot those problems.

After this all the participants were divided into groups of two and each group have to give a presentation on HPLC troubleshooting based on their understanding of the topic. This was carried out to understand the student’s participation in the workshop.

After lunch break the second theory session was taken by Mr. Basavraj of AUXOCHROMOFOURS in which he told the participants about the data integrity, data management and the importance of data integrity in a corporate sector. He also talked about other corporate ethics that one must follow. He also told the participants about the role of publication and writeups.

At the end of second day Valedictory function of the workshop was organized at 4.00 pm onwards and certificates were distributed to all the participants.

