

Report on visit to Anchrom Eneterprises Pvt. Ltd. for CAMAG-HPTLC Training

Mulund, Mumbai

February 15, 2019

Maliba Pharmacy College, Bardoli

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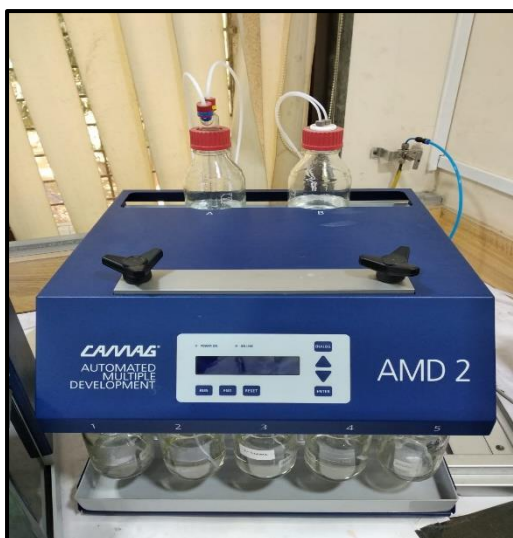
Date of visit	February 15, 2019
Place of training	Anchrom Enterprises Pvt. Ltd, Mulund, Mumbai - 400081
Coordinators from college	Mr. Praful Dedhiya, Dr. Furqan Maulvi
Approved by	Dr. Shailesh A. Shah, Principal
Participating students	Six Students from Fourth semester M.Pharm, Pharmaceutical Quality Assurance 1) Hitika Patel 2) Nirav Panchal 3) Akshita Shukla 4) Rohit Singh 5) Ami Patel 6) Bhumiraj Vansia
Accompanying faculty member	Mr. Praful Dedhiya
Coordinators from Anchrom	Ms. Reshma Jadhav, Lab Co-ordinator, Contact no. 09833830895 Mr. Pankaj Tarmale, Application Chemist, Contact no. 022 21639928 Dr. Saikat Mallick, Assistant Manager (Development), Contact no. 08291101567

A comprehensive HPTLC training program was organized at Anchrom, Mulund, Mumbai on 15th Feb, 2019. There were six students of M.Pharm, Quality assurance



department with one faculty member Mr. Praful Dedhiya who successfully coordinated the training program. The journey was started at 2:30 AM from Bardoli and reached our destination at 9:45 AM. As we entered to Anchrom we filled a visiting form and then had tea and biscuits. Then we were taken to conference room and introduced to Mr.

Pankaj Tarmale, Application Chemist Anchrom. Whole training program was conducted by him which was divided into two sessions. The first session was presentation on HPTLC and second session was of demonstration.



First session was started at 10:15 AM in which a presentation was given on HPTLC covering the basic principle of HPTLC, Introduction to stationary phase and mobile phase, other chromatographic techniques, advantages of HPTLC over other Separation techniques, general steps involved in chromatographic separation in which a detail information was given on techniques like Quantitative (for fingerprinting), In-situ clean up(for fatty materials), Micro preparative isolation, and

Superimpose techniques, then brief information was given on working of different instruments for sample application, development (through AMD, ADC and twin trough chamber), scanning, drying, visualization and two derivatization techniques: dipping and spraying were explained, in case of spraying 2 mL and 4 mL of derivatizing reagent is required for 20×10 mm and 20×20 mm plates respectively and 200 mL



of derivatizing reagent is required in case of dipping technique. We were also briefed about two softwares namely Win Cat and Vision Cat. Few examples are given for separation of herbal samples using derivatizing reagent for visualization. Then few of our queries regarding plate drying and solvent grades to be used were solved and here we ended our first session at 12:30 PM and then we headed for lunch.

The second session (demo session) was started at 1:15 PM. For this session we were taken to Anchrom laboratory area where we have seen different instruments like Camag Linomat 5 sample applicator, Camag TLC visualizer, Camag automatic TLC sampler 4, Camag ADC 2 (Automatic developing chamber), AMD 2 (Automated multiple development), ChemCap clearview ductless flame cabinet with HPTLC plate heater, immersion devise for derivatisation and camag TLC-MS interface. A demo was given for estimation of caffeine in tea



sample by using vision cat software, Linomat 5 sample applicator, twin trough chamber, Plate heater, Camag Visualizer and Camag scanner using Toluene:Acetone (8:2) as a mobile phase.



Another demo was given for the same sample using Automatic TLC sampler 4, and AMD 2 with precoated glass plates. Various statistical and evaluation functions of both the softwares were explained like sample application parameters (application position on X and Y axis, band length etc), scanning parameters (slit width, scanning speed, spectral scanning etc). Another method development case for blue ink was discussed by one of the Anchrom member where he explained

ink extraction from paper which was done by using Ethanol:Water (1:1) and mobile phase used was Butanol:Ethanol:Water (20:4:6). We were also trained for washing of chambers, chamber saturation, and plate drying.

After the demonstration we again gathered in conference room where we filled a feedback form then Mr. Ramesh Naidu and Dr. Saikat Mallick discussed about importance of HPTLC in separation and estimation of different



samples and training certificates were given to all of us as a token of appreciation. Mr. Ramesh Naidu was felicitated by Mr. Bhimiraj Vansia and Mr. Nirav Panchal with gift and sweets. Lastly we had tea and biscuits and ended the training by clicking a group picture with Anchrom team at 5:00 PM.



Prepared By:

M.Pharm, PQA, Final year