



RCPN

Standard operating procedure of Semi-preparative HPLC

Objective: This instruction explains how to use, maintenance and calibrate HPLC device which is made by Germany on Nano biomaterial laboratory.

Scope: This device is used for Identification, separation and purification of organic compounds.

Responsibility: Laboratory assistance is responsible for the accuracy of the apparatus and should be reported to him/her in case of problems.

Materials and equipment: Pump parts(appurtenance), UV detector, Florescent detector

Guidelines for use:

1. Turn on detector parts, pump 1, pump 2, injector, degser respectively.
2. Turn on computer
3. Open(Run) Ez chrome software.
4. Insert timetable and solvent program in the related section of software page. Be noted as soon as uploading software, device will be run first line of program as cleaning device.
5. Insert(Enter) Solvent current rate, pumps, detector, injector program in the related-specific page.
6. Save program and then upload.
7. Loop inject sample for separation and purification from injector. Pay attention in this step injector should be in load mode (status or situation) not being in inject mode.
8. After cleaning column by timetable, do run button from related tab. In this step as timetable. Injector will be injecting sample from loop to column head then saved timetable will be run.
9. After collecting intended peaks, clean column by increasing non-polar gradient. Finally, clean by 100% methanol for 15 minutes.
10. After cleaning, stop software so pumps will be stopped.
11. First Turn off computer, then from degser to detector respectively.



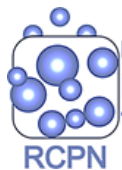
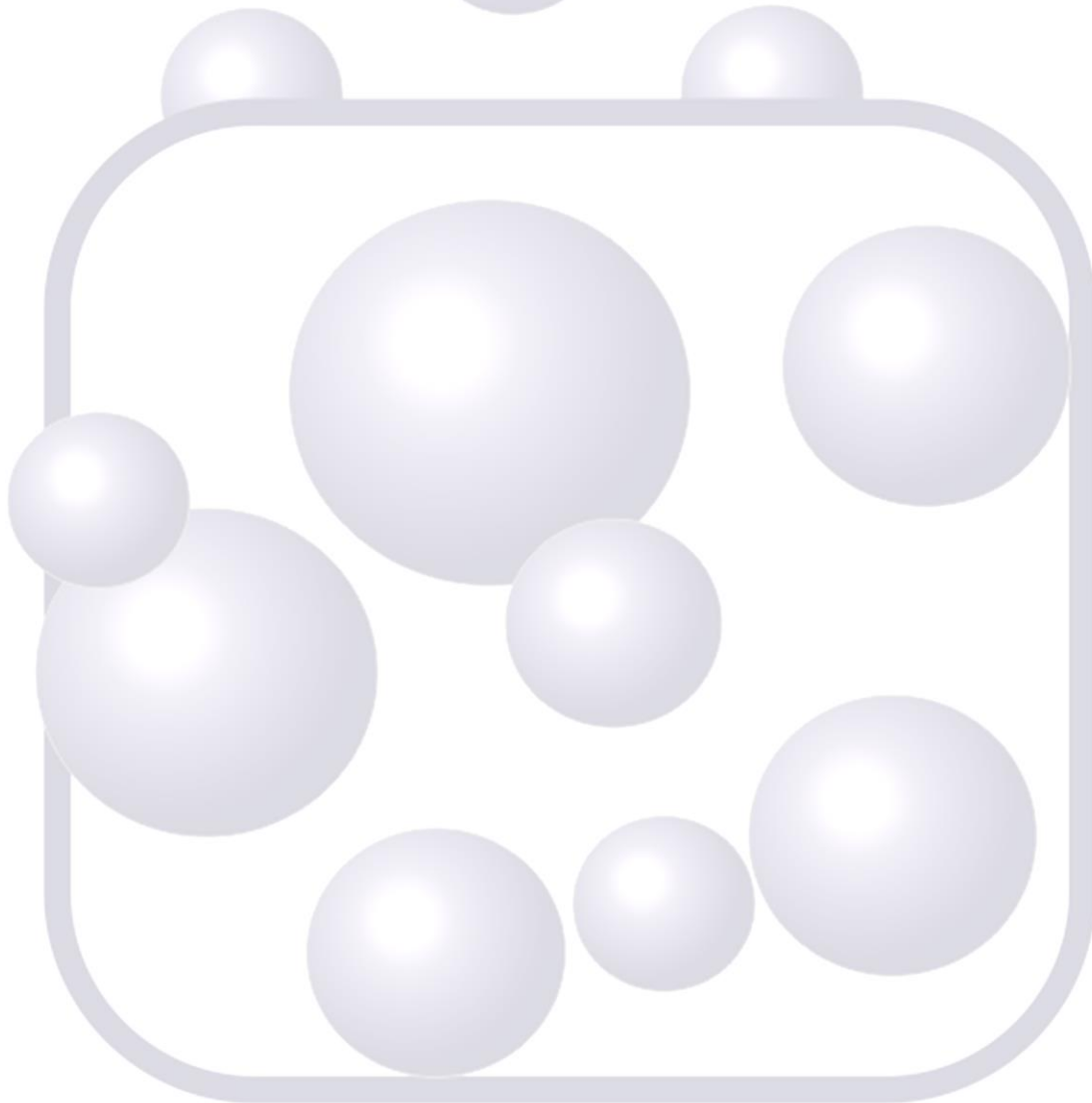
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Warning and safety precautions:

When use device, care about increasing column pressure

Maintenance:

when pressure increased or decreased, be sure about exist of bubble in system. Solvent filters should be sonicating with methanol and water combination Periodically.



Research Center for
Pharmaceutical Nanotechnology
Tabriz University of Medical Sciences

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Author / translator	Faezeh bakhshi