

GPC Instructions

Sample Preparation:

1. Your sample needs to be highly purified. No corrosive chemicals, such as strong acid and strong base, are allowed. Otherwise, it will permanently damage the instrument, and you will be responsible for the total cost for the repair.
2. Dissolve 1-2 mg of your sample in HPLC grade THF at least one hour before the measurement. There should be no precipitates in its THF solution, otherwise you need to filter the solution to remove the precipitates.

Instrument Operating Procedure

1. Sign on the notebook.
2. Turn on the computer.
3. Tune on the power of the instrument in the sequence of "PU-2089 Plus"---"AS-2055 Plus"---"LC-NetII/ADC"---"HV-2080-01"---"RI-2031 Plus"--"MD-2010 Plus"---"PDConnect"---"PD2020", wait until the initialization finished.
4. Load your sample in the sample rack.
5. Launch the "EZChrom Elite" software on the desktop, and click "HPCL" icon.
6. Check the instrument status by menu "Control"---"Instrument Status", if Instrument status shows "Connected", it means that you can start to work on it, if "not connected" is shown, you need to turn off the software and shut down the computer, then restart the computer and software.
7. Load the method by menu "File"---"Method"---"Open", and then select "jianhua.met"
8. Download method by menu "Control"---"Download" method. Watch the panel on "PU-2089 Plus", and the pressure should be in the range of "2.9-3.2" MPa.
9. Run the sample by menu "Control"---"Single run", set up your "Sample ID", "Data path", "Vial" (which means the position of your sample in the sample rack), and then click "start" button. The instrument will run automatically. In 12mins, it will be done.
10. Turn off the software, log off the computer, and switch off the instrument in the opposite sequence of turn on the instrument. Make sure to clean up your sample on the sample rack

GPC Instrument Policy

1. The Instrument is managed by Dr. Lei Zhai, if you want to use the instrument, come to see Dr. Lei Zhai first. You can either get trained by Dr. Jianhua Zou to become an authorized user or ask him to do the sample for you.
2. Use the instrument properly as described in the GPC SOP, if you find something wrong with GPC, come to see Dr. Jianhua Zou immediately.
3. ***You sample need to be totally soluble in THF.*** Otherwise it will block the column, which costs more than 1000 dollars to get a new one. No corrosive chemicals, such as strong acid and strong base, are allowed. The corrosive sample will do permanent damage to the instrument, and you will be responsible for the total cost for the repair.
4. Take away your samples after each time usage. Failure to do that will lead to the suspension of your privilege of using instrument.