# LIQUID CHROMATOGRAPHY



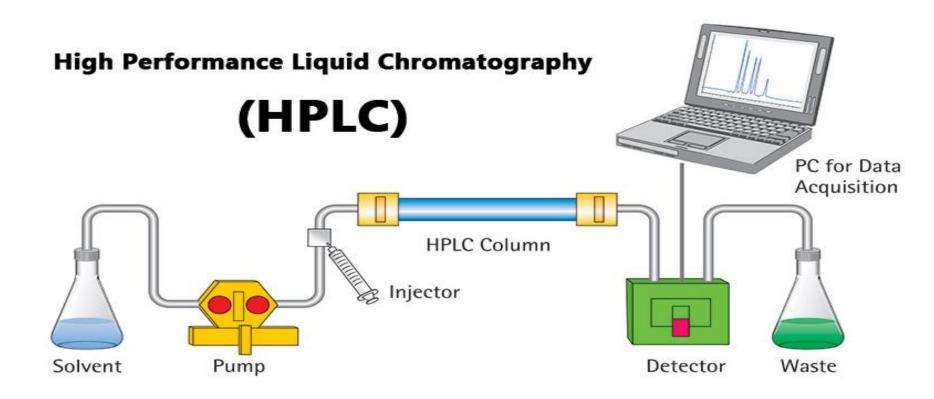


### Introduction

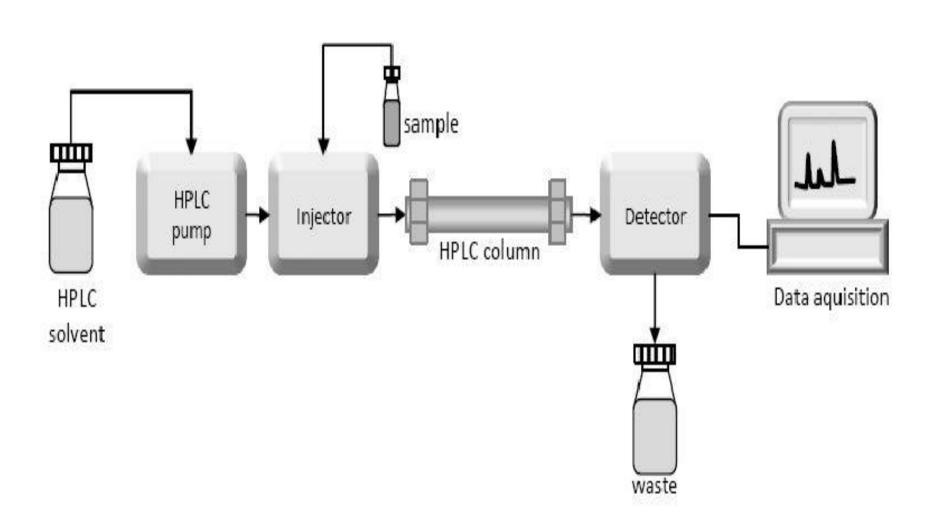
- Liquid Chromatography (LC) is a chromatographic technique in which the mobile phase is a liquid
- LC can be applied to the separation of any compound that is <u>soluble in a liquid phase</u>
- The separation occurs based on the interactions of the sample with the mobile and stationary phases.
- Liquid mobile phase allows LC to be used at lower temperatures than required by GC

#### **High Performance Liquid Chromatography (HPLC):**

- Higher operating pressures need for mobile phase delivery requires special pumps and other system components
- Sample applied using closed system (i.e., injection valve)
- detection uses a flow through detector



### Instrumentation of HPLC



## The Chromatogram

