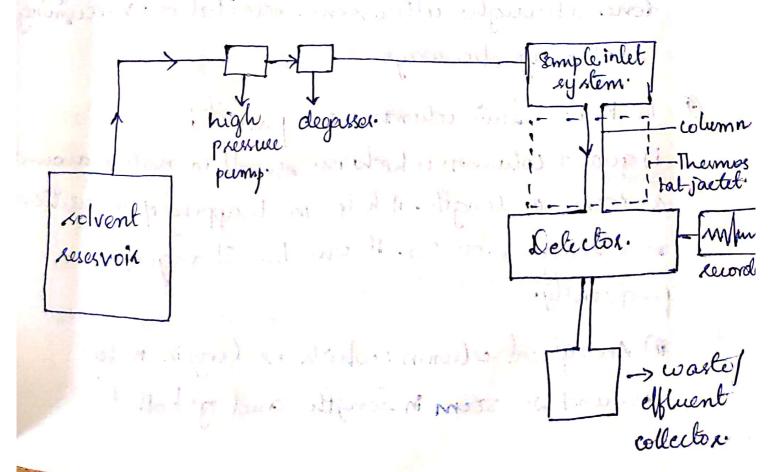
HPLC: its stancts for high performance liquid chanalography.

- Mormal phase est alteriary pheuse is polar and mobile phase is non polar.
- Reverse phase : stationary phase is nonpolar and mobile phase is polar.
- state and mobile phase both are in liquid
- a It is used for thermally labile components.
- a The principle of HPLC is partition.



- O Columns are made up of staintess steel and com with stand pressure uplo 8000 psi (pound force sequencing)
- MPLC column is staight 20 to 50 cm in length and 1-4 millimette in diameter.
- HPLC Column packing maletial (achies bent /stationary phase -
- (High pressure pump in HPLC to control flow rate.
- positive displacement pumperhech provider, constant pressure from reservoir to semple inlet
- Degasses to semove air bubbles or other ex material that will hinder the flow of solvent. it can be done through ultra sonic conitations vaccining, and magnetic ways.
- In HPLC luto columns are present;
 - i) guard column: which is, small in nature around a-10cm in length. It helps in trapping of impurities and rough sources. it can be changed sequently.
 - ii) Analytical column: which is long in nature around 20-50cm in length and of both the

- colourns having some packing material. @ Column thermostat for regulating the temparature. 9 solvent in HPLC has three functions: Ontroduction of sample. @ development of Chromatogram. m purpose of Elulion. @ detectores are of two lippes: 1) bulk detector: to detect mobile phase properties (ie; reportive index, dentity, intensity and visosity ii) solute property detectors: will detect un possibent IR Absorbents/ fluoreseence i) Ideal Component for column: i) semple and solvent should not react with the column. ii) longer the column, better will be the sesolution of Chromatogram.
 - ii) Adsorbent should be spherical and of uniform size.

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