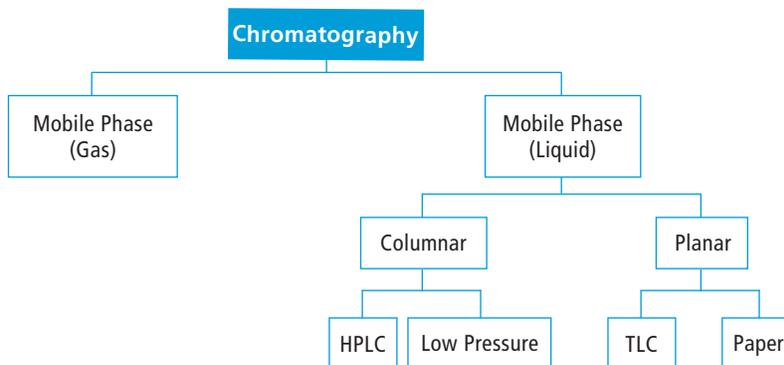


High Performance Liquid Chromatography (HPLC)

HPLC Quick Pick Reference Chart



Characteristics of HPLC Methods	
Method/Description/Column	When is Method Preferred
Reversed Phase Uses water/organic mobile phase Columns: C-18, C-8	First choice for non-ionized compounds that dissolve in water or organic mixtures
Ion Pair Uses water/organic mobile phase, a buffer to control pH and an ion pair reagent Columns: C-18, C-8	Good choice for ionic or ionizable compounds
Normal Phase Uses a mixture of organic solvents as mobile phase Columns: PAC, Silica	Good choice when reversed phase or ion pair are ineffective. First choice for lipophilic samples that do not dissolve well in water/organic mixtures, first choice for mixtures of isomers and preparative scale
Ion Exchange Uses aqueous mobile phase plus buffer for pH control Columns: Anion or Cation Exchange	First choice for separating mixtures of inorganic ions, good choice for separating proteins, nucleic acid samples and related compounds