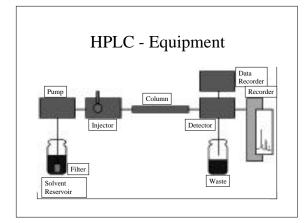
High Performance Liquid Chromatography (HPLC)	
HPLCCollect blood sampleSeparate plasma (partial clean-up)	
 Extraction into organic solvent (polarity/pH) Injection onto column Separation on column Quantitation with detector Record and analyse results 	
High Performance Liquid Chromatography	
• Pump	
Injector Column	
DetectorRecorder	



Solvent / Pump / Injector

- Solvent reservoir
- High pressure 1000 to 5000 psi
- Injector
 - Low pressure stop flow
 - High pressure value

Injecting the sample



Column

- Normal Phase
 - Silica gel non-aqueous
 - Adsorption
- Reverse phase (C8, C18) aqueous
 - Partitioning
- Ion-exchange aqueous
- Molecular sieve aqueous
 - Size

Detector

- Specific
 - Absorbance
 - Fluorescence
 - Electrochemical
- Non-specific
 - Refractive index
 - Radioactivity
 - Conductivity

Detector



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Nample Source Redrawn from: Instrumental Analysis by Bauer, Christian and O'Reilly, 1978, page 187

Fluorescence Detector Sumple Cell Source Detector Redrawn from: Instrumental Analysis by Bauer, Christian and O'Reilly, 1978, page 235

