

Gas Liquid Chromatography
GLC

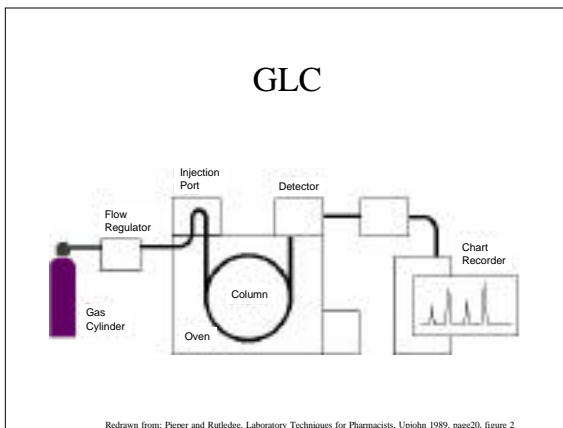
Gas Liquid Chromatography

- Gas cylinder and regulator
- Injection port
- Column - column oven
- Detector
- Recorder

Assay Methods

- Separation
 - Centrifugation
 - Extraction
 - Chromatography
- Quantitation
 - UV
 - Fluorescence
 - Radioactivity





**Gas cylinder / Injection port /
Column and oven**

- Gas cylinders
 - Nitrogen, helium, argon
 - Hydrogen
- Gas-solid > adsorption
- Gas-liquid > High boiling point stationary phase
- Glass, steel, capillary glass

Oven and column



Detectors

- Flame ionisation (FID)
 - general purpose - modest sensitivity
- Nitrogen phosphorus FID
 - specific for N and P
- Electron capture (EC)
- Mass spectrometry (MS)

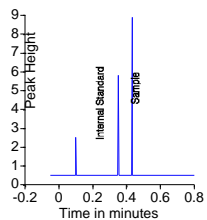
Recorder

- Recorder
- Integrator
- Chromatogram
- Standard Curve

Recorder



Chromatogram



From: Pieper and Rutledge, Laboratory Techniques for Pharmacists, Upjohn 1989, page33, figure 7

Standard Curve

