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Chromatography is a separation technique that involves the separation of different compounds based on their interaction with a stationary phase and a mobile phase. It is widely used in various fields such as inorganic chemistry, organic chemistry, biochemistry, and environmental science.

Chromatography techniques include:

1. Paper Chromatography
2. Thin Layer Chromatography
3. Column Chromatography
4. High Performance Liquid Chromatography
5. Ion Chromatography

Chromatography is a fundamental technique used by scientists for separating organic and inorganic compounds so that they can be analyzed and studied. By analyzing a compound, a scientist can figure out what is made up of it and how it functions. Some of the most common types of chromatography are paper chromatography, thin layer chromatography, and column chromatography.

Paper Chromatography

- It is the simplest type of chromatography and is used to separate compounds based on their solubility in a solvent.
- The sample is placed on a sheet of paper and a solvent is applied.
- The solvent moves up the paper and the sample components separate based on their solubility in the solvent.

Thin Layer Chromatography

- It is a variation of paper chromatography where the sample is applied to a thin layer of adsorbent material.
- The sample components separate based on their solubility in the mobile phase and the stationary phase.

Column Chromatography

- It is a more advanced type of chromatography where the sample is loaded onto a column and a solvent is added to separate the components.
- The solvent moves up the column and the sample components separate based on their interaction with the stationary phase.

High Performance Liquid Chromatography (HPLC)

- It is a more advanced type of chromatography where the sample is loaded onto a column and a high pressure solvent is added to separate the components.
- HPLC is used in various fields such as biochemistry and environmental science.

Ion Chromatography

- It is used to analyze samples containing ions.
- The sample is loaded onto a column and a solvent containing ions is added to separate the components.

There are many different types of chromatography, each with its own unique advantages and disadvantages. Chromatography is a powerful tool for scientists, and it is used in many different fields to separate and analyze compounds.