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# Chromatography is the evolving tool used in life science applications

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Today Chromatography is the most adaptable, comprehensive and universal technique used in analytical chemistry. The practice of Chromatography is quickly increases in pharmaceuticals industry along with nutrition and other industry

Inside Food industry, Degeneration detection which detecting the amount of organic acids in foods provides key information about the quality of foods. Then, Preservative detection to detect the presence of added malic acid and fumaric acid in apple juice. Also determining nutritional quality, by determining Vitamin C reduction in foods through modern acid analysis supports coupled with electrochemical detection even in complex samples.

In Forensics, crime division testing used Gas Chromatography to test evidence such as blood or hair from a crime scene and in forensic laboratory the kind of complexes and fluids existing in the human body, post death has been recognizing. Then Arson investigation identifies flammable / combustible liquids from fire fragments. In Molecular biology with metabolomics and proteomics studies electrochemistry (EC) and MS is coupled with LC for the characterization of the reaction mixture. EC–LC–MS is useful in the study of biomolecules. Additionally it is crucial in imitating biotransformation responses, such as oxidative reactions. In proteomics, analyze oxidation of proteins and peptides. Inside Nucleic acids research EC coupled with LC, MS, or GC has been successfully used to identify the oxidation products of nucleobases, nucleotides, and nucleosides.