

Review on LC-NMR Hyphenated Technique

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Abstract: *A hyphenated technique refers to the integration of two distinct analytical methodologies to facilitate seamless interfacing. Typically, this involves the combination of chromatographic techniques with spectroscopic methods. LC-NMR, an influential analytical tool, has been instrumental in resolving intricate mixtures. LC-NMR, a hyphenated system that merges liquid chromatography (LC) with nuclear magnetic resonance (NMR), is a meticulously organized analytical approach extensively applied across various domains. These applications encompass the analysis of metabolites, profiling drug impurities, elucidating molecular structures, identifying volatile oils, scrutinizing pesticides, and investigating other natural products.*

Keywords: LC-NMR, NMR, Hyphenated Techniques, instrumentation, Development, Analytical method.

REFERENCES

- [1]. LC-NMR, a powerful tool for analysing and characterising complex chemical mixture without the need of chemical separation, by bhumika. D . Sakhreliya *, Swati kansara department of quality assurance, A one pharmacy college, anasan Ahmedabad, Gujarat, India.
- [2]. LC-NMR expanding the limits of structure elucidation, Nina C.Gonnella .
- [3]. (Application of NMR spectroscopy volume 2 2015,bentham science publishers ltd). Choudhary, M. Iqbal _ Rahman.
- [4]. Klaus Albert on line LC-NMR and related techniques (2002, Wiley).
- [5]. Instrumental method of analysis by R.Chatwal Information from SlideShare of Syed rashedfaizenmehdhi .