

Modern Herbal Technology

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Abstract: People are growing more interested in herbal medicines today because of their numerous advantages. Herbal formulations are now widely recognised as successful therapies for a variety of diseases. More than 80% of people throughout the world utilise herbal items and drugs to maintain a healthy lifestyle, even though the majority of these applications are unusual. A number of product abuses and adulterations have also been brought on by the rising use of herbal products, disappointing consumers and manufacturers and, in some cases, having disastrous outcomes. The development of trustworthy analytical methods that can quantitatively analyse marker/bioactive compounds, other essential elements, and accurately profile the phytochemical composition is extremely challenging for scientists. Standardization is a key step in creating a uniform biological activity, consistent chemical profile, or even merely a quality assurance programme for the production and manufacturing of herbal medicines. The current review article describes various conventional methods as well as more recent developments. In fields including DNA fingerprinting, metabolomics, differential pulse polarography, chemometrics, X-ray diffraction, and others, recent advancements have been noticed. The standardisation of herbal remedies benefits from chromatographic and capillary electrophoresis techniques are also described.

Objective:

1. Recognize the origin of herbal drugs in their raw materials, from their cultivation to their finished products.
2. Be familiar with the WHO and ICH guidelines for evaluating herbal medications.
3. Understand natural sweeteners, nutraceuticals, and herbal cosmetics
4. Value GMP and the patenting of herbal remedies

Keywords: Chromatographic Methods, DNA Fingerprinting, Herbal Drugs, and Standardisation

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