

Research in Pharmacy and Health Sciences

Review Article

A review on extraction and phytochemical screening methods

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Abstract:

Plants are the source of different drugs belonging to various therapeutic categories like antidiabetics, antispasmodics, antihypertensives, anticancers, antidepressants, antimicrobials, etc. Plants are used to treat various ailments and these plants have been used by different individuals and tribals worldwide. Use of plants to treat various ailments have also been mentioned in Ayurveda. Along these lines, various researchers are involved in isolating and assessing different bioactive molecules, to be isolated from various plant sources. Isolation of bioactive molecules is not a easy task for researchers. This review gives a focus on extraction and phytochemical screening methods along with their merits and demerits.

Keywords: Extraction, phytochemical screening, active ingredient, phytopharmaceuticals, solvents

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INTRODUCTION:

Since plants-derived substances have broad applications worldwide so they are of great interest. Therapeutic plants are the wealthiest bioasset of traditional medicines, present day medicines, nourishment supplements, pharmaceutical intermediates and substance elements for manufactured medications. [1]

Extraction is the isolation of active pharmaceutical ingredient from the plant or animal tissues utilizing specific solvents. The substances got from the plants are generally blends of metabolic substances that can be in fluid/semisolid/ solid dry powder state (after evacuating the solvent), and are expected for oral or outer uses. These comprise a number of preparations such as liquid concentrates, infusions, decoctions, tinctures, powdered or semisolid extracts. These products are also known as galenicals. [2]

Extraction techniques utilize the isolation of active pharmaceutical ingredient from the dormant/latent parts of the plants by utilizing specific solvents. During the process of extraction, solvents penetrate into the solid plant material and solubilise the substances that have similar polarity. [1]

Aim of the standard extraction methodology for rough medications is to take out the pharmaceutically active ingredients and to remove unwanted material by treatment with a particular dissolvable known as menstrum. Concentrate obtained in this way, may be used as therapeutic agent after standardization. Concentrate may be used in various forms like tinctures or liquid concentrates or may be further processed into any dosage forms. Concentrates are mixture of various plant metabolites like alkaloids, glycosides, flavonoids, lignans, terpenoids, etc. [3]

Decoction, digestion, infusion, alcoholic extraction by fermentation, hot continuous extraction (by using Soxhlet apparatus), microwave-assisted, supercritical fluid, counter-current and ultrasound extraction etc. are the most common techniques of medicinal plant extraction. Some other hydro-distillation techniques such as steam and/or water distillation, distillation preceded by hydrolytic maceration, cold fat extraction etc. may be the useful techniques for extraction of plants containing aromatic substances.

Headspace trapping, micro-distillation, protoplast extraction, solid phase micro-extraction, micro-distillation by heat, solid phase micro-distillation, molecular distillation etc. are the most recent extraction techniques for aromatic plants.[3] The fundamental parameters impacting the characteristics of an extract are as follows [1]:

1. Plant specimen used
2. Solvent system used for extraction
3. Method of extraction

The impact of extracted bioactive molecules depends on[1]:

1. Nature of plant specimen
2. Original source
3. Level of preparing
4. Moisture content
5. Size reduction of the plant specimen

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