

Herbal drugs and formulations

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Herbal formulations means a dosage form consisting of one or more herbs or processed herbs in specified quantities to provide specific nutritional, cosmetic benefits meant for use to diagnose, treat, mitigate diseases of human beings or animals, alter the structure or physiology of human beings or animals. Herbal formulations contain an active substance or herbal substance or herbal preparation or herbal substance in combination with one or more herbal preparations. Herbal formulations are obtained by subjecting herbal substances to treatments such as extraction, distillation, expression, fractionation, purification, concentration or fermentation include comminuted or powdered. Whole, fragmented or cut plants, plants parts, algae, fungi, lichen in an unprocessed, usually dried form but sometimes fresh were used in the preparations of herbal formulations. Herbal substances are precisely defined by the plant part used and the botanical name according to the binomial system (genus, species, variety and author). Different herbal formulations are tinctures, extracts, essential oils, expressed juices and processed exudates. Markers are chemically defined constituents or groups of constituents of a herbal substance, a herbal preparation or a herbal medicinal product which are of interest for control purpose independent of whether they possess any therapeutic activity. Markers serve to calculate the quantity of herbal substance or herbal preparation in the herbal formulations if the markers have been quantitatively determined in the herbal substance or herbal preparations. Characterization of herbal formulations which includes are design and development, pharmacopoeial tests and acceptance criteria, periodic testing, release, shelf-life acceptance criteria, in-process tests, alternative procedures, evolving technologies, reference standard and statistical concepts.

Biography

Prabhakar Reddy Veerareddy is an accomplished researcher, eminent teacher in Pharmaceutical Sciences. Currently, he is serving as principal at Chaitanya College of Pharmacy Education and Research, Hanamkonda, Andhra Pradesh. He has spent one year at Butler University, Indiana Polis, USA for post doctoral research and pursued his doctoral thesis (Pharmaceutics) at Novel Drug Delivery Laboratories in Kakatiya University, India during 2005. He has attended many symposiums and workshops at the national and international level. He has more than 50 research publications in several international journals, and he guided 35 M. Pharm students and 4 Ph.D. students.

Enhanced remedial assistance of *Solanum nigrum* extract loaded PLGA microspheres for improved antiulcer potential

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The apex aspire of current swot up was to design and fabricate *Solanum nigrum* extract loaded PLGA sustained released microspheres to appraise antiulcer bustle in acetyl salicylic acid induced ulcer rat model. Solvent evaporation method was engaged to fabricate the *Solanum nigrum* extract loaded microspheres. Optical microscopy & SEM (scanning electron microscopy) was employed for the investigation microspheres architecture and distribution. Formulations containing *Solanum nigrum* loaded PLGA sustained released microspheres administered orally to the animal model. *Solanum nigrum* loaded microspheres significantly decreased free-acidity, total-acidity, ulcer index and gastric volume and significantly increased the pH in acetyl salicylic acid model. The results of histopathology of stomach (after administration of formulation) presume the zenith potential of sustained released PLGA microspheres loaded *Solanum nigrum* extract opening the new eon for the better management of ulcer predicament.