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Formulation, stability studies and analysis of new ayurvedic health supplement for babies

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The six medicinal plants having antioxidant and antibacterial activity have been selected based on folklore use and it was incorporated in germinated cereals to form a new poly herbal formulation. The fabricated polyherbal formulation had undergone phytochemical screening. Qualitative chemical analysis method was performed. Evaluation of polyherbal formulation was conducted by means of pharmaceutical evaluation, safety evaluation and Physico chemical evaluation. In the case of safety evaluation, the acute toxicity studies were determined along with the determination of Aflatoxin and heavy metals. The acute toxicity of aqueous solution of formulation was determined in albino mice following fixed dose method of OECD guideline 423; CPCSEA. For the determination of Aflatoxin, TLC method and for the heavy metals flame photometric method were performed. Physico chemical evaluation consists of total microbial count and detection of pathogens. *In-Vitro* antioxidant activity was also determined by DPPH method and *in vivo* studies were performed by inducing sodium nitrite oxidative stress in rats. Antibacterial activity was evaluated with the help of cup plate method (*in-vitro*) and *in-vivo* analysis by counting the number of bacteria (*S.typhimurium*) per gram of feces in mice. The major constituents like Gallic acid, Quercetin, Curcuminoids and Ascorbic acid were identified by comparing with bio-markers and it's quantified with the help of UV. After quantification, the filling process of the formulation was performed in accordance with GMP. The formulated product was standardized with the help of TRIPLE-P protocols. Stability studies were performed in accordance with ICH guidelines. All the results showed a very good positive response.

Biography

Dr. Deepa.P completed D.Pharm from John Enoch College of Pharmacy, B.Pharm from S.B. College of Pharmacy, and M.Pharm from Annamalai University Chidambaram. Completed PhD at the age of 33 years from Karpagam University, Coimbatore and she guided nearly 100 B.Pharm students and 7 P.G.students. She has published more than 15 papers in reputed journals and has been serving as assistant professor in Devaki Amma Memorial College of Pharmacy. Got best research idea award from a community called "synergians", Kochi.

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