

(54) Title of the invention : STANDARDIZATION OF AN ALCOHOLIC FERMENTED FORMULATION AND METHOD THEREOF

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(57) Abstract :

The present research is centered on the formulation and standardization of, an Ayurvedic polyherbal fermented formulation traditionally employed in the management of respiratory disorders such as bronchitis, asthma, chronic cough, and allied conditions. The formulation comprises a synergistic blend of potent herbs including *Datura metel*, *Adhatoda vasica*, *Glycyrrhiza glabra*, *Piper longum*, *Clerodendrum serratum*, *Solanum xanthocarpum*, *Mesua ferrea*, and *Zingiber officinale*. These herbs are well-documented for their bronchodilatory, expectorant, anti-inflammatory, and antioxidant properties—each contributing to the formulation's holistic respiratory benefits. Three variants of Formulation (F1, F2, and F3) were prepared by modulating the concentrations of key ingredients, following classical Ayurvedic fermentation protocols using natural fermenting agents such as Dhataki Pushpa and honey. These formulations were evaluated for phytochemical constituents, antioxidant potential using the DPPH radical scavenging assay, and key physicochemical parameters including pH, density, viscosity, and specific gravity. Furthermore, Thin Layer Chromatography (TLC) profiling was carried out to identify and compare the chemical fingerprints of the formulations. Among the formulations, F1 demonstrated superior performance with the highest antioxidant activity (79% DPPH scavenging), indicating excellent free radical neutralization capacity. Phytochemical screening revealed the presence of bioactive compounds such as alkaloids, flavonoids, tannins, terpenoids, and saponins—all known for their therapeutic roles in respiratory health. Physicochemical evaluation showed that F1 maintained a stable pH 6.01, appropriate density 1.12 g/cm³, viscosity 1.43 cp, and specific gravity (0.529), suggesting favourable formulation stability and consistency. TLC analysis further confirmed the reproducibility and presence of key phytoconstituents, establishing its chemical robustness. In conclusion, this study scientifically reaffirms the therapeutic relevance of Formulation as an effective natural remedy for respiratory ailments. Formulation F1 emerged as the most efficacious and stable among the three variants, making it a promising candidate for large-scale production and clinical application.

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