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(57) Abstract :
The herbal toothpaste formulation includes a combination of herbal active ingredients such as Zanthoxylum armatum stem, Psidium guajavae folium leaves, and Mangifera Indica leaves, which provide antimicrobial, anti-inflammatory, and teeth whitening properties. These ingredients are mixed in powder form to create a herbal base. Binding and smoothing agents, including a binding agent and glycerine, are combined with the herbal base and water to form a smooth, homogeneous gel. A foaming agent, sodium lauryl sulfate (SLS), is dissolved in water and added to the herbal base to produce a foaming mixture. The formulation is mixed and blended using a homogenizer to create a smooth and stable toothpaste mixture, which is then subjected to quality control measures to ensure proper consistency, viscosity, and pH before being packaged in sealed containers for storage and later use. Reference Fig 1

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