

Keshamruta - Herbal Hair Heat Protectant Spray

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Abstract: *The present research work tries to solve the problem that associated with the excessive use of heat styling tools contributes to hair damage by causing protein degradation, cuticle disruption, and moisture loss. In response to the rising demand for natural and safe hair care alternatives, this study focuses on the formulation and evaluation of an herbal hair heat protectant spray using plant-based ingredients with thermal shielding, antioxidant, and conditioning properties. The spray was developed using herbal components such as Aloe vera, hibiscus extract, onion oil, and shea butter, selected for their proven abilities to nourish the scalp, strengthen hair strands, and provide protection against thermal stress. The hair spray formulation was evaluated a physicochemical parameter including pH, viscosity, thermal stability, and spray ability. Efficacy was assessed by applying the spray to hair strands prior to heat exposure, followed by microscopic analysis to observe structural integrity having a light purple in color with pleasant odor. The findings demonstrated that the herbal spray significantly minimized heat-induced damage while preserving hair texture and hydration. This study highlights the effectiveness of herbal ingredients in creating a safe and sustainable alternative to conventional heat protectant products*

Keywords: Hair Health, Herbal, Heat Protectant, Aloe vera

