

# Formulation and Evaluation of Herbal Mosquito Repellent Candle Containing Combination of Essential Oils

Monika B Ghode, Mrunali G Wankhede, Prajakta B Wankhede, Pradnya D Ingle,  
Payal K Thak, Pavan P Shende, Pooja Y Shende

Students, B Pharm Final Year, New Montfort Institute of Pharmacy, Ashti, Wardha, Maharashtra, India

**Abstract:** *The quantity of biologically active compounds found in medicinal plants, which may be utilized to heal and prolong life, is the primary source of both synthetic and traditional herbal medicine. Plants are a source of many elements required for life, which is why researchers have been investigating them to discover possible uses. The objective of the project was to use curcumin and Embelia longa's ribs, which were extracted to make an insect repellent product, to make a mosquito repellent. The isolation of curcumin and embelin was verified by TLC. Bands were compared to standards by computing Rf 0.74 and 0.60, respectively, at visual detection and 254 nm. A variety of aspects were taken into consideration when evaluating the cream's composition, including its smooth texture, spreadability, and pH 7, which indicates skin safety. Phase separation does not take place during thermal stability. It was concluded from the current study that a cream with 1.5% Embelin and 1% Curcumin is safe, effective, and stable for application on the skin.*

**Keywords:** natural mosquito repellent, embelin, and curcumin