

ABSTRACT

The herbal ingredients are utilized as sunscreen in cosmetics. The herbal products are risk-free and without adverse effects on skin. People rely on natural products more than synthetic ones. The purpose of the current study was to identify herbal products with sun protection properties for usage in sunscreen lotion. In this article, research was being done on the fruit of *Prunus persica* and *Melia azedarach* for finding SPF values and their application as sunscreen. The methanolic and water extracts were taken from the powder of *Prunus persica* and *Melia azedarach*. For UV analysis, the methanolic and water extracts of the fruits *Prunus persica* and *Melia Azedarach* were diluted with methanol and water, respectively. The absorbance value of both solutions was measured using a UV-visible spectrophotometer. The SPF (Sun Protection Factor) of *Prunus persica* and *Melia Azedarach* were determined using the Mansur mathematical equation. After heating the water phase and the oil phase separately, a sample of lotion was made by mixing the chemicals. Extracts were characterized using UV-Vis spectroscopy. The absorbance was determined in a 5 nm range between 280 to 320nm.