Research title Cosmetics from passion fruit seeds extract

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Abstract

The UVB protection of concealer mousse was superior over the liquid foundation with 2 folds higher of SPF. Both of the base formulations had SPF of SPF 13.88-17.08 and 5.58-6.18, respectively. The concealer mousse and liquid foundation bases were incorporated with the passion fruit seed extract at 0.1% and 0.3%. Sun protection efficacies were achieved (18.47-19.03, 18.28-19.70 and 8.44-10.20, 8.40-11.14 respectively). The passion fruit seed concealer mousses at 2 different concentrations were both chemical and physical stable and exhibited insignificant different sun protection efficacies ($p > 0.05$). The 0.1% extract product followings stability test protected against UVB with SPF of 16.61-19.57 and against UVA with boot star rating of 4 and critical wavelength between 388.30-388.7 nm. The product showed none of skin irritation as assessed in human volunteers. Accordingly, the developed concealer mousse containing passion fruit seed extract was highlighted as the prototype sunscreen makeup cosmetics which economically feasible regarding to its appointed safety and UVA and UVB protection efficacies that suitable for daily application.

Keywords: Cosmetics/*Passiflora edulis*/Passion fruit/Sun protection/Efficacy/ Safety