FORMULATION OF TOMATO EXTRACTS (*Solanum lycopersicum* L.) AS A SUNSCREEN LOTION

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ABSTRACT

Tomato (*Solanum lycopersicum* L) has efficacy as sunscreen which consist of lycopen that can provide absorption to UV radiation of the sun and protect skin from UVB induce photodamage. This research was aimed to make a stable, attractive, effective, and safe formulation of sunscreen lotion from tomato extract. Measurement of the Sun Protecting Factor (SPF) value of tomato extract as active substance was done. Next step was formulation of lotion by adding tomato extract and measurement of SPF value into the lotion The measurement of SPF value was done by Petro’s spectrophotometry method. Concentration of tomato extract inside sunscreen lotion which has SPF value close to SPF 15 was 1% and 1,5% tomato extract with SPF value 18,84 and 22,24. Physical observation toward lotion was done by organoleptic observation, pH and viscosity measurement, centrifugation, and freeze thaw. Observation result show that sunscreen lotion produced had physical quality during storage period, did not cause irritation to the skin, and gave effectiveness as sunscreen.

Keyword : Tomato, Sunscreen lotion, SPF