## The Effect of Coffee Grounds in the Manufacture of Body Scrub from Liquid Soap Based on used Cooking and Olive Oils

## Syamsul Bakhri<sup>1,a,\*</sup>, Nur Ilah Padhila<sup>2,b</sup>, Gusnawati<sup>3,a</sup>, Isna Rahmayanti Burhanuddin<sup>4,a</sup>, Rewnita Ashahra Asmin<sup>5,a</sup>

<sup>a</sup>Lecturer at Chemical Engineering, Faculty of Industrial Technology, Universitas Muslim Indonesia

<sup>b</sup>Lecturer at Nurshing Science, Faculty of Public Health, Universitas Muslim Indonesia

\*syamsul.bakhri.fti@umi.ac.id

**Abstract.** The skin is often exposed to sunlight and pollution, which can cause dullness, dryness and loss of moisture, so it is necessary to use the right body scrub product to nourish the skin. This research is about making body scrubs from coffee grounds and liquid soap, which aims to determine the effect of adding coffee grounds to body scrubs on organoleptic tests, pH, homogeneity, humidity and level of irritation. This research began with making a body scrub using experimental methods with 3% cornstarch as a fixed variable, coffee grounds and liquid soap and 40% coffee grounds), variant 2 (47% liquid soap and 50% coffee grounds), and variant 3 (37% liquid soap and 60% coffee grounds). Organoleptic, pH and homogeneity testing using descriptive methods, and testing for moisture and irritation levels such as itching, redness and edema using analytical observation method and questionnaires for 13 panelists. The results of this research are that all body scrub preparations are safe against irritation level tests, but only variants 1 and 2 have good humidity, but all body scrub preparations have a pH that does not match the standard pH of the product beauty (SNI 16-4399-1966) so it is not safe for use by the public.

Keywords: body scrub, coffee grounds, liquid soap