

CHARACTERISTICS OF PHYSICAL PROPERTIES OF LIQUID SMOKE BIOPESTICIDE SAMPLES FROM EMPTY BUNCHES OF OIL PALM

(*Elaeis guineensis* Jacq.)

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ABSTRACT

Empty bunches of oil palm are one of the wastes produced from the palm fruit itself. Uncontrolled dumping of empty oil palm bunches on oil palm plantations resulted in a large number of empty oil palm bunches. The empty bunches of palm oil that are used have various characteristics, one of which is liquid smoke as a biopesticide. The purpose of this study was to determine the quality of physical properties present in biopesticide samples of liquid smoke from empty bunches of palm coconut. This research was carried out from August to September 2022 at the Bioscience Laboratory and the Soil Science Laboratory of the Jember State Polytechnic. Research on the characteristics of the physical properties of palm empty bunch liquid smoke biopesticide samples was carried out by various methods such as measuring pH, specific gravity, viscosity, aroma, color and transparency. The results of the study gave that the highest pH test was 8.46. The highest specific gravity was 99.1%. The highest viscosity test was 1.34. The aroma is obtained the most with the sour aroma of sangit, the most color is black brown and also many samples that have transparency.

Keywords : Empty Bunches of Palm Oil, Liquid Smoke and Biopesticides