

## ABSTRACT

Pakcoy (*Brassica rapa* L.) is one of the most favored vegetable crops due to its good nutritional content, including vitamins and minerals that benefit health and can prevent various diseases. This study aimed to determine the effect of kirinyuh leaf fertilizer and liquid organic fertilizer from goat urine on the growth and yield of pakcoy plants. The research was conducted in Gampong Ulee Reuleung, Kecamatan Dewantara. The study took place from December 2025 to January 2026. This research used a Randomized Block Design method with two factors and three replications per treatment combination. The first factor was kirinyuh leaf fertilizer at levels of 0 g/plant (control), 150 g/plant (K1), and 300 g/plant (K2). The second factor was liquid organic fertilizer from goat urine at three treatment levels: 0 ml/liter water (control), 100 ml/liter water (U1), and 200 ml/liter water (U2). The results showed that kirinyuh leaf fertilizer treatment affected leaf length at 28 days after planting (HST), leaf width at 14 HST, and stem diameter at 7-21 HST. The treatment of 300 g/plant (K2) was the best. The liquid organic fertilizer goat urine treatment singly affected plant height at 14-28 HST, number of leaves at 28 HST, leaf length at 21 HST, leaf width at 14 and 28 HST, and stem diameter at 14-28 HST. The treatment of 100 ml/liter water (U1) was the best. There was an interaction between the combination of kirinyuh leaf fertilizer (K) and goat urine POC (U) treatments on plant height at 28 HST, number of leaves at 28 HST, leaf width at 14-21 HST, and stem diameter at 7-14 HST. The best treatment was found in K1U1 (Kirinyuh 150 g/plant + goat urine POC 100 ml/liter water).

Keywords: Pakcoy, Kirinyuh Leaves, Goat Urine POC