

## INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh POC limbah pengolahan susu kambing dengan berbagai macam perlakuan dan perlakuan terbaik pada pertumbuhan dan hasil tanaman selada. Penelitian telah dilakukan di *Geenhouse* dan Laboratorium Tanah Fakultas Pertanian, Universitas Muhammadiyah Yogyakarta pada bulan Juli 2017 hingga September 2017.

Penelitian ini dilakukan menggunakan metode percobaan faktor tunggal, disusun dalam RAL (Rancangan Acak Lengkap) dan dilakukan proses pembuatan pupuk organik cair berbahan dasar limbah pengolahan susu kambing yang dikombinasikan dengan pupuk urea sebagai perbandingan, terdapat 5 perlakuanimbangan nitrogen yaitu : P1 = (100% N- Urea) + ( 0 % N-POC Limbah susu kambing); P2 = (75% N- Urea) + ( 25% N- POC Limbah susu kambing); P3 = ( 50% N- Urea) + (50% N- POC Limbah susu kambing); P4 = (25% N- Urea) + (75% N- POC Limbah susu kambing); P5 = (0% N- Urea) + (100% N- POC Limbah susu kambing).

Hasil penelitian menunjukkan penggunaan POC limbah pengolahan susu kambing dan Pupuk urea denganimbangan kadar N memberikan pengaruh yang sama atau tidak berbeda nyata terhadap pertumbuhan dan hasil tanaman selada.

**Kata kunci** : Limbah pengolahan susu kambing, Selada, POC , Pupuk Nitrogen

## ABSTRACT

*The reseach was conducted to determine the effect of Liquid organic fertilizer of goat milk processing wastes with various treetment and the best treetment on the growth and yield of lettuce plants. The study was carried out from July 2017 through September 2017 at the Greenhouse and soil Laboratory of Faculty of Agriculture, Universitas Muhammadiyah Yogyakarta.*

*This reseach was designed using single faktory experiment method arranged in CRD ( Completely Randomized Design )and the process of making LOF (liquid organic fertilizer) based on goat milk processing waste combined with urea fertilizer as a comparison, there are 5 treatments of Nitrogen balance : P1 = (100% N- Urea) + ( 0 % N-LOF Goat milk processing wastes); P2 = (75% N- Urea) + ( 25% N- LOF Goat milk processing wastes); P3 = ( 50% N- Urea) + (50% N- LOF goat milk processing wastes); P4 = (25% N- Urea) + (75% N- LOF goat milk processing wastes); P5 = (0% N- Urea) + (100% N- LOF goat milk processing wastes).*

*The result showed that the use of liquid organic fertilizer of goat milk processing wastes gives the same effect or no significant difference in the use of Urea fertilizer on lettuce plant with the same N content.*

**Keywords :** *Goat milk processing wastes, Lettuce, Nitrogen Fertilizer*