

**RESPONSE OF A MIXTURE OF PETROBIO BIOFERTILIZER AND  
NPK ON THE GROWTH AND YIELD OF RED ONION PLANT (*Allium  
ascalonicum* L.)**

By : Adin Belva Janitra  
Supervised by : Oktavia S. Padmini and Alif Waluyo.

**ABSTRACT**

The research aims to determine the best mixture of petrobio and NPK biofertilizers for the growth and yield of red onions plants. This research used a field experiment using a Complete Randomized Block Design method with a single factor of 9 treatments, namely Petrobio biofertilizer 5 g/plant + NPK 3 g/plant, Petrobio biofertilizer 5 g/plant + NPK 4 g/plant, Petrobio biofertilizer 5 g/plant + NPK 5 g/plant, petrobio biofertilizer 10 g/plant + NPK 3 g/plant, petrobio biofertilizer 10 g/plant + NPK 4 g/plant, petrobio biofertilizer 10 g/plant + NPK 5 g/plant, biofertilizer petrobio 15 g/plant + NPK 3 g/plant, petrobio biofertilizer 15 g/plant + NPK 4 g/plant, and petrobio biofertilizer 15 g/plant + NPK 5 g/plant. The data obtained were processed using ANOVA at 5% level and further DMRT test at 5% level. The results showed that the treatment with a mixture of 10 g/plant Petrobio biofertilizer + 5 g/plant NPK (P6) resulted in the highest plant height, number of bulbs per plant, wet weight of bulbs per plant, and dry weight of bulbs in red onions plants.

**Key Words :** red onion, petrobio biofertilizer, NPK fertilizer