The role of phosphate solubilizing bacteria from Rhizosphere of upland rice in the growth and yield of upland rice on ultisol soil

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Abstract	The aim of this study was to determine the role of B. proteolyticus GT2, B. paramycoides SR1, andA. delafieldii PA1 in the growth and yield of upland rice grown on ultisol soil, determine the best bacteria that showed the best upland rice growth and yield, and detennine the interactions between upland rice varieties and bacterial type. The research was conducted in a greenhouse, Pasir Lor Village, Karanglewas District, Banyumas Regency, Central Java, Indonesia from December 2019 to June 2020. The research used a factorial randomized block design consisting of two factors: the upland rice varieties type (INPAGO UNSOED 1 (V1), INPAGO UNSOED PARIMAS (V2), and INPAGO 8 (V3)) and the bacteria type (control (B), B. proteolyticus GT2 (B1), B. paramycoides SR1 (B2), and A. delafieldii PA1 (B3)). Each combination was repeated three times. The results showed that PSB played a role in increasing the number of productive tillers, root volume. and root dry weight. A. delafieldii PA1 was the best bacteria in increasing the number of productive tillers, while B. paramycoides SRI was the best bacteria in increasing root volume and dry weight. The results showed that there was no interaction between upland rice varieties and bacterial type.
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