

Pengaruh media tanam serta pemberian variasi Inokulum Strain Nostoc CPG24 dan GIA13a terhadap pembibitan padi (*Oryza sativa* L.) varietas Ciherang = The effect media and variations of Inoculum Nostoc Strain CPG24 and GIA13a on ciherang varieties of rice (*Oryza sativa* L.) germination

Endah Fitriati, author

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Abstrak

Penelitian yang telah dilakukan dari Maret –Mei 2015, bertujuan untuk mengetahui pengaruh media tanam serta menentukan inokulum optimum untuk pembibitan tanaman padi varietas Ciherang. Pembibitan padi dilakukan selama 14 hari di rumah kaca menggunakan 4 media tanam berbeda, yaitu tanah kebun steril dan non steril serta pupuk organik steril dan non steril. Strain Nostoc CPG24 dan GIA13a masing- masing sebanyak 0,2; 0,4; dan 0,6 g diinokulasikan pada keempat media tanam pada hari ke-1 pembibitan.

Parameter yang diukur adalah tinggi, panjang akar, serta berat basah dan berat kering tanaman. Hasil uji statistik menunjukkan media tanam berpengaruh terhadap pembibitan padi varietas Ciherang. Pengaruh strain CPG4 dan GIA13a terhadap pembibitan hanya terdapat di media pupuk organik steril. Pemberian variasi inokulum (0,2; 0,4; dan 0,6 g) strain CPG24 dan GIA13a mampu meningkatkan tinggi dan panjang akar secara signifikan ( $P < 0,05$ ) dibandingkan kontrol pada media pupuk organik steril.

.....The experiment that has been done from Maret– May 2015 was used to know the effect of media and determine optimum inoculum for Ciherang rice germination. The rice germination was done for 14 days in the green house used four different medias, they are sterilized and unsterilized garden soil and also sterilized and unsterilized organic soil. Strains CPG24 and GIA13a was inoculated into four different medias on first day of rice germination as much as 0,2; 0,4; and 0,6 gram fresh weight for each strain. The effect of Nostoc strain to rice germination was evaluated by using vegetative parameters, including plant height, root lenght, fresh and dry weight. The statistic result showed that media gave effect for rice germination. Application of three variations of inoculum from both strains only gave effect on sterilized organic soil. Variations of inoculum of CPG24 and GIA13a strains had significant effect ( $P < 0,05$ ) to increase plant height and root lenght of plants in sterilized organic soil.