

Pembuatan dan pemberian pollen substitute menggunakan candida parapsilosis CR057 sebagai pakan tambahan apis cerana fabricius =
Preparation of the pollen substitute made of candida parapsilosis CR057 and its uses as a feed supplement to apis cerana fabricius

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Abstrak

Penelitian bertujuan membuat pollen substitute (PS) yang disukai dan dapat meningkatkan produktivitas lebah madu *A. cerana*. Tiga macam pollen substitute dibuat dengan bahan dasar tepung kedelai dan susu skim. PS A mengandung bahan dasar, *Candida parapsilosis* CR057, dan madu; PS B mengandung bahan dasar dan sirup gula; dan PS C mengandung bahan dasar dan madu. Pemberian PS dilakukan selama 20 hari dan lebah dibiarkan mencari serbuk sari dan nektar di alam. Koloni kontrol tidak diberi PS.

Hasil penelitian menunjukkan bahwa *A. cerana* lebih menyukai PS A dan PS C dibandingkan PS B.

Pemberian semua jenis PS meningkatkan keliling (1,03--1,51% per hari) dan jumlah honeycomb. Koloni yang diberi PS A mengalami peningkatan keliling honeycomb terbesar (1,51% per hari). Secara umum, lebah pekerja yang diberi PS dan kontrol mengalami kenaikan berat badan (28,39%--52,32%). Pada kontrol terdapat kenaikan keliling honeycomb, akan tetapi tidak terdapat penambahan jumlah honeycomb.

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The research aimed to make pollen substitutes preferred by and increase the productivity of *A. cerana*. Basic ingredients of pollen substitutes (PS) were soy flour and skim milk. There were three types of pollen substitutes, i.e. PS A contained basic ingredients, *Candida parapsilosis* CR057, and honey; PS B contained basic ingredients and sugar syrup; and PS C contained basic ingredients and honey. The pollen substitutes were fed to colonies of *A. cerana* for 20 days but they were allowed to forage on flowers. No PS was given to the control colonies.

The results showed that *A. cerana* preferred PS A and PS C to PS B. Increases of circumference (1.03--1.51% each day) and number of honeycombs were observed in colonies fed with all types of PSs. The increases of circumference of colonies fed PS A was greater than those of other PSs and control (1.51% each day). Generally, the weight of individual worker bees increased in colonies fed with PSs and control (28.39%--52.32%). There was an increase of the circumference of honeycombs in control but there was no addition of honeycomb.