

ABSTRAK

Penelitian tentang “Pemberian Tepung *Spirulina Platensis* Pada Pakan Dengan Persentase Berbeda Terhadap Pertumbuhan Ikan Guppy (*Poecilia reticulata*) bertujuan mengetahui pengaruh penambahan tepung *Spirulina platensis* terhadap pertumbuhan benih ikan Guppy. Metode penelitian yang digunakan adalah metode experimental dan rancangan yang digunakan adalah Rancangan Acak Lengkap (RAL) dengan 4 perlakuan dan 4 ulangan. Ikan Guppy yang digunakan sebanyak 80 ekor dan sebanyak 5 ekor setiap ulangan. Perlakuan yang digunakan yaitu P1 (kontrol), P2 (penambahan tepung *Spirulina platensis* 0.9%), P3 (penambahan tepung *Spirulina platensis* 1.2%) dan P4 (penambahan tepung *Spirulina platensis* 1.5%). Hasil penelitian dari parameter pertumbuhan berupa pertumbuhan berat, panjang, SGR, dan SR berturut-turut adalah P1 (0.037±0.01^a; 0.39±0.15; 0.215±0.055%; 100%) P2 (0.048±0,01^a; 0.46±0,13^{ab}; 0,2525±0.063%; 90%) P3(0.065±0,02^a; 0,52±0,09^{ab}; 0.287±0.065%; 100%) dan P4(0.086±0,02^b; 0,70±0,09^b; 0.385±0.062%; 95%). Pemberian dosis penambahan tepung *Spirulina* terbaik terdapat pada perlakuan P4 P4(0.086±0,02^b; 0,70±0,09^b; 0.385±0.062%; 95%). Suhu selama penelitian berkisar 29 – 33,5°C, pH 7.1-8.9, dan oksigen terlarut selama penelitian 4 - 4.82 ppm, kualitas air selama penelitian masih tergolong optimal untuk pemeliharaan benih ikan Guppy.

Kata kunci : *Ikan Guppy; Spirulina platensis; Pertumbuhan*

ABSTRACT

Research on "Giving *Spirulina Platensis* Flour to Feed with Different Percentages on the Growth of Guppy Fish (*Poecilia reticulata*) aims to determine the effect of adding *Spirulina platensis* flour on the growth of Guppy fish seeds. The research method used was an experimental method and the design used was a completely randomized design (CRD) with 4 treatments and 4 replications. Guppy fish used as many as 80 heads and as many as 5 tails for each repetition. The treatments used were P1 (control), P2 (addition of 0.9% *Spirulina platensis* flour), P3 (addition of 1.2% *Spirulina platensis* flour) and P4 (addition of 1.5% *Spirulina platensis* flour). The results of the study of the growth parameters in the form of growth in weight, length, SGR, and SR were P1 ($0.037 \pm 0.01a$; 0.39 ± 0.15 ; $0.215 \pm 0.055\%$; 100%) P2 ($0.048 \pm 0.01a$; $0.46 \pm 0.01a$; $0.46 \pm 0.01a$; 13ab; $0.2525 \pm 0.063\%$; 90%) P3 ($0.065 \pm 0.02a$; $0.52 \pm 0.09ab$; $0.287 \pm 0.065\%$; 100%) and P4 ($0.086 \pm 0.02b$; $0.70 \pm 0.09b$; $0.385 \pm 0.062\%$; 95%). The best dosage of adding *Spirulina platensis* flour was found in treatment P4 P4 ($0.086 \pm 0.02b$; $0.70 \pm 0.09b$; $0.385 \pm 0.062\%$; 95%). The temperature during the study ranged from 29 - 33.5°C, pH 7.1-8.9, and dissolved oxygen during the study 4 - 4.82 ppm, the water quality during the study was still considered optimal for the maintenance of guppy fish fry.

Keywords : *Guppy Fish, Spirulina platensis, Growth*

