

Growth Performance Improvement Potential of PHYTOCEE® in Shrimp

OBJECTIVE

To assess the effect of PHYTOCEE® on growth performance parameters of white leg shrimp *Litopenaeus vannamei*.

MATERIALS AND METHODS

The experimental shrimps were reared in pond (9.6*40*1.2 m) under standard rearing conditions. The shrimps were divided in to 4 groups having 210 shrimps per group distributed in three replicates in each group. G1 served as normal control and supplemented with basal Stay C (500 g/ton), G2 served as positive control, and supplemented with basal + top-up Stay C (500+1000 g/ton). G3, and G4 groups were supplemented with PHYTOCEE® at 100% replacement of top-up Stay C and 50% of top-up Stay C respectively. The duration of treatment was 42 days. The growth performance parameters viz. mean weight (g), specific growth rate (% per day), and FCR were evaluated.

RESULTS

Effect of PHYTOCEE® on growth performance parameters

Groups	Mean Weight (g)	SGR (% per day)	FCR
G1-STC (500 g/ton)	6.787 ± 0.188	4.540 ± 0.070	1.147 ± 0.080
G2-STC (1500 g/ton)	7.367 ± 0.267	4.737 ± 0.097	1.110 ± 0.042
G3-STC + PHY (500+1000 g/ton)	7.290 ± 0.159	4.713 ± 0.044	1.127 ± 0.046
G4-STC + PHY (500+500 g/ton)	6.390 ± 0.280	4.413 ± 0.104	1.167 ± 0.075

Values are expressed as Mean ± SEM; n=3; p>0.05 based on one-way ANOVA; STC, Stay C; PHY, PHYTOCEE®; SGR, Specific growth rate; FCR, Feed conversion ratio

CONCLUSIONS

100% replacement of top-up Stay C with PHYTOCEE® resulted in better growth performance of shrimp.

OUTCOME

Hence, supplementation of PHYTOCEE® (1000 g/ton) along with Stay C (500 g/ton) could be suggested for optimum growth performance of shrimp under standard rearing conditions.