PHYTOCEE®

Impact of PHYTOCEE® on Growth Performance in Shrimp

OBJECTIVE

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

MATERIALS AND METHODS

The experimental shrimp Litopenaeus vannamei were reared in pond (9.6*40*1.2 m) under standard rearing conditions. The shrimps were divided in to 6 groups viz. G1-Normal control (Basal Stay C, 500 g/ton), G2-Positive control (Basal + Top up Stay C, 500 + 1000 g/ton). G3, G4, G5, and G6 groups were supplemented with PHYTOCEE® at 100% replacement of top-up Stay C, 50% of top-up Stay C, 50% replacement of top-up Stay C, and 75% replacement of top-up Stay C respectively. The duration of treatment was 60 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)	15.90	0.320	1.50
G2-STC (1500 g/ton)	15.90	0.290	1.50
G3-STC + PHY (500+1000 g/ton)	18.40	0.540	1.30
G4-STC + PHY (500+500 g/ton)	18.60	0.550	1.25
G5-STC + PHY (1000+500 g/ton)	18.40	0.520	1.25
G6-STC + PHY (750+750 g/ton)	18.70	0.555	1.25

STC, Stay C; PHY, PHYTOCEE®; SGR, Specific growth rate; FCR, Feed conversion ratio

CONCLUSIONS

75% replacement of top-up Stay C with PHYTOCEE® resulted in better growth performance of *Litopenaeus vannamei* than other combinations studied.

OUTCOME

Hence, supplementation of PHYTOCEE® along with Stay C at 750 g/ton each could be suggested for optimum growth performance of white leg shrimp *Litopenaeus vannamei* under standard rearing conditions.