

Efficacy Dietary Supplementation of banana Peel meal on Growth and Cannibalism level of Giant Freshwater (*Macrobrachium rosenbergii*)

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Abstract. Banana peels contain the amino acid tryptophan which is thought to support growth and suppress cannibalism in giant freshwater prawns. The purpose of this study was to evaluate efficacy dietary supplementation of banana peel meal on growth performance and cannibalism level of giant freshwater prawn (*Macrobrachium rosenbergii*). Four isonitrogenous and isocaloric experimental feeds were prepared by supplementing different levels of dietary chromium: a control group, four groups supplemented with banana peel meal (0, 2.5; 5 and 7.5% of weight feed) were fed to triplicate groups with density of 200 fish/m³. After a 45-day feeding experiment, the growth performance include weight gain (WG), specific growth rate (SGR), and feed efficiency (FE) and cannibalism level were measured. Banana peel meal supplementation significantly decreased ($P < 0.05$) cannibalism level at 5% weight feed. In addition its weight gain and feed efficiency significantly higher but growth rate was not significantly different. The result of the present study suggested that feed efficiency increased and cannibalism level of giant freshwater prawn significantly decreased by feeding diets supplemented with banana peel meal (5% of weight feed).