LIST OF TABLES

Table 2.1: General amount of nutrient incorporated into diets for growing fish
Table 2.2: Digestible energy value for fish feeds
Table 2.3: Significant time line of fish meal replacement previously
Table 2.4: Water quality parameters for tilapia
Table 2.5: Dietary requirements of tilapia
Table 2.6: Essential amino acid requirements for tilapia (Oreochromis niloticus)
Table 2.7: Essential fatty acid requirements for Oreochromis niloticus
Table 2.8: Feeding allowances & frequencies for feeding of various tilapia at 28 °C
Table 2.9: Comparison of nutritional characteristics of selected insects with common protein
Table 2.10: Worldwide mushroom production
Table 3.1: Composition of vitamin premix used in this experiment
Table 3.2: Composition of mineral premix used in this experiment
Table 3.3: Proximate analysis and prices (RM / kg) of feed ingredients used in this study
Table 3.4: The gradient table of Buffer A and Buffer B
Table 4.1: Proximate analysis of reference and test diets (% as fed basis)
Table 4.2: Amino acid composition of super worm (Zophobas morio) meal and fish meal in comparison (mg/g crude protein)
Table 4.3: Fatty acid composition of super worm (Zophobas morio) meal and fish meal in comparison (% of total fatty acids)
Table 5.1: Composition of experimental diets fed to Oreochromis spp. juveniles (g/kg)
Table 5.2: Growth performance and feed utilization of Oreochromis spp. juveniles fed with experimental diets
Table 5.3: Water quality parameter during experimental period
Table 5.4: Whole body composition of red tilapia fed with experimental diets (% as dry matter basis)
Table 6.1: Composition of super worm based diets supplemented with DL-Methionine fed to Oreochromis spp. juveniles (g/kg)

Table 6.2: Growth performances and feed utilization of Oreochromis spp. juveniles fed with experimental diets

Table 6.3: Whole fish body composition of red tilapia fed with experimental diets (% as dry matter basis)

Table 6.4: Water quality parameters during experimental period

Table 7.1: Composition of super worm based diets supplemented with mushroom stalk meal fed to Oreochromis spp. juveniles (g/kg)

Table 7.2: Growth performances and feed utilization of red tilapia juveniles fed with experimental diets

Table 7.3: Whole fish body composition of red tilapia fed with experimental diets (% as dry matter basis)

Table 7.4: Water quality parameters during experimental trial