

LIST OF TABLES

Table No	Title
1.1	Biochemical constituents in blood samples of <i>E. suratensis</i> before and after maturation
1.2	List of epizootic bacteria and fungi isolated from eggs of <i>E. suratensis</i> in natural pond of Rajakkamangalam
1.3	Effect of Seasonal Variations on Egg Production in <i>E. suratensis</i>
1.4	A comparative analysis of different spawning parameters based on body weight of <i>E. suratensis</i> in natural pond of Rajakkamangalam
1.5	A comparative analysis of different spawning parameters based on body weight in hormonated <i>E. suratensis</i>
1.6	A comparative analysis of different spawning parameters based on hormone concentration in <i>E. suratensis</i> of body weight 301-350 g
2.1	Morphometric analysis of <i>E. suratensis</i> egg before and after administration of hormones
2.2	Percentage of Oocyte, Pre-vitellogenic and Vitellogenic eggs in the ovary administered with hormones
2.3	Effect of various hormones on fecundity, striping response, fertilization, hatching and larval production in <i>E. suratensis</i>
2.4	Biochemical composition of <i>E. suratensis</i> egg administered with hormone
2.5	Percentage of fatty acid composition in the egg of hormone administered <i>E. suratensis</i>
2.6	Effect of hormone on number of sperm cells, sperm motility and time of sperm survival in <i>E. suratensis</i>
2.7	Effect of hormone on biochemical constituents in blood samples of <i>E. suratensis</i>
2.8	Influence of hormone administration on level of lipid in blood of <i>E. suratensis</i> at different time intervals
2.9	Level of hormones in blood before and after administration of synthetic hormones in <i>E. suratensis</i>
3.1	Developmental stages of egg in <i>E. suratensis</i> before and after administration of

herbal maturation diet

- 3.2 Percentage of Oocyte, Pre-vitellogenic and Vitellogenic eggs in ovary, after administration of herbal maturation diet
- 3.3 Effect of herbal maturation diets on spawning fecundity, striping response, fertilization, hatching and larval production in *E. suratensis*
- 3.4 Biochemical constituents of various tissue samples of herbal administered *E. suratensis*
- 3.5 Percentage of Moisture content and Biochemical composition in herbal administered *E. suratensis* egg
- 3.6 Percentage of fatty acid composition in egg of herbal administered *E. suratensis*
- 3.7 Number of sperm cells, sperm motility and time of sperm survival in herbal administered *E. suratensis*
- 3.8a Biochemical constituents in blood samples of herbal maturation diet administered *E. suratensis*
- 3.8b Biochemical constituents in blood samples of herbal maturation diet administered *E. suratensis*
- 3.9 Percentage composition of ingredients in the 40% herbal maturation diet
- 3.10 Level of hormones in blood before and 50 days after administration of herbal maturation diets in *E. suratensis*
- 4.1 Morphometric characters of *E. suratensis* larvae of 1-15 days old obtained from the stages collected in the natural pond condition in experimental tank
- 4.2 Morphometric character of hormone (HCG+LHRH) administered *E. suratensis* larvae of 1-15 days old
- 4.3 Morphometric parameters of herbal maturation diet (MP+WS*) administered *E. suratensis* larvae of 1-15 days old
- 4.4 A comparative survival analysis of different challenge study in *E. suratensis* larvae obtained from different treatments
- 4.5 Effect of administration of hormone and herbal maturation diet on larval weight and chemical content in larval yolk-sac of *E. suratensis*