**The Influence of Stocking Density on Growth Performances of Neon Tetra (*Paracheirodon innesi*, Myers,1936) Under the Controlled Conditions in Glass Tanks**

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Neon tetra (*Paracheirodon innesi*) is one of the most valuable fish species in the ornamental fish trade and they have a high demand in local and foreign market. Also, Neon tetra is an expensive community fish whose stocking densities are not yet optimized for commercial rearing under controlled conditions. Therefore, this study was carried out to determine the best stocking density for Neon tetra under controlled conditions. Four different stocking densities, namely 2 fry/liter, 3 fry/liter, 4 fry/liter and 5 fry/liter were tested for a period of six weeks for growth parameters. Depending on the stocking densities, fish were stocked into glass tanks (2 feet × 1 feet × 1 feet). Four tanks were used as replicates. Each experimental tank was filled with the equal amount of water (45 liter) and height of the water level was 10 inches. A total of 2520 of *Paracheirodon innesi* fry (TBL = 1± 0.00046 cm) were collected, weighed, measured their total length and stocked in glass tanks. Uniform management practices were done to all treatments and replicates throughout the experimental period. Also, Body weight, total length and water quality parameters (pH, Dissolved Oxygen level, temperature and ammonia level) were measured throughout the experimental period. No mortality was recorded during whole experimental duration within treatments and replicates. At the end of the experiment, 2 fry/l and 3 fry/l were showed a significantly higher value in body weight, total length, weight gain (WG), length gain (LG), specific growth rate (SGR) and condition factor (K-factor). Best growth performances resulted in 2 fry/l and 3 fry/l stocking densities in Neon tetra under the culture conditions given in the study. However, for aquaculture purposes, 3 fry per liter is the best stocking density for Neon tetra fry.

**Keywords:** *controlled conditions, growth performances, Neon tetra, Paracheirodon innesi, stocking density,*