1/21/23, 11:19 AM HTML / Printer-friendly

**AgSURS - Reviewer 1 View**

|  |  |
| --- | --- |
| **Abstract Title** | Determination of the most suitable spawning substrate for Neon tetra (*Paracheirodon innesi*, Myers,1936) in captive condition |
| **Abstract Body** | Neon tetra (*Paracheirodon innesi*) is one of the most popular freshwater ornamental fish species, which highly demand in ornamental fish trade. However, these fish can be very difficult to spawn if environmental conditions are not ideal. The production of neon tetra in Sri Lanka is inadequate to fulfill the demand in export market. Development of captive breeding and larval rearing techniques are found as an effective strategy to increase commercially available stocks, which will also lead to ensure the sustainable utilization as a valuable resource. Hence, the objective of this study was to determine the most suitable substrate for successful breeding of Neon tetra in captivity. Four types of substrate materials; pebbles, synthetic net, aquatic plant (Cabomba spp) and coconut fiber were provided with stilled water in 15 inches × 8 inches × 6 inches size indoor glass tanks and four replicates for each treatment were used. Selected individuals were introduced into each tank at 1:1 male to female ratio. Completely Randomized Design was used as the experimental design and produced fry number was counted. Data were analyzed using Microsoft excel. Better fry number was observed in the substrate of aquatic plant net (233±6) when compared to other three ~~(fry number in the substrate which contain~~ synthetic net 220±18, pebbles 144±10, coconut fiber 108±18~~)~~, respectively. Similar result was observed in the hatchability and the survival rate. Results of this study revealed that the most suitable breeding substrate for the Neon tetra in indoor glass tanks was the substrate of aquatic plants. |
| **Key Words (5 Words)** | Neon tetra (*Paracheirodon innesi*), captive breeding, spawning substrate |
| **Abstract ID** | AQB0578 |
| **Findings of this study (r1)** | ……………………………………………………………………………………………………………………………………..1. Make a significant contribution to existing knowledge
2. Make a marginal contribution to existing knowledge
3. Contain conceptual errors/faulty judgments
4. Confirm known results
 |
| **Title of the abstract(r1)** | …………………………………………………………………………………………………………………………………….1. Is appropriate to the thematic area and descriptive
2. Needs improvement
 |
| **If needs more improvements for****"Title" please specify here(r1)** |  |
| **The content of the abstract(r1)** | ………………………………………………………………………………………………………………………………………1. Is clear and concise
2. Needs improvements
 |
| **If needs more improvements for "Abstract" please specify here(r1)** |  |
| **Recommendation(r1)** | ………………………………………………………………………………………………………………………………………1. Accept in the present form with minor editorial corrections
2. Accept with minor corrections
3. Accept with major revisions cited
4. Reject
 |
| **Please justify reasons for If rejection(r1)** |  |
| **Any Other****Comment(r1)** | This research finding would be useful for ornamental fish breeders to enhance breeding outcomes along with higher hatchability and survival rates than present. Hence, dissemination of this knowledge is very much important for the development of the ornamental industry in Sri Lanka and elsewhere. |
| **Any Other****Attachment(r1)** |  |

https://gateway.agri.sab.ac.lk/agsurs/abstract\_portal/modules/export\_manager/export.php?export\_group\_id=1&export\_group\_1\_results=selected&exp… 1/1