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Effect of Preservation Methods on Giant Freshwater Prawn : Seasonal Nutritive-Values, Shelf-Life Extensions and Micro-Floral Divergences

By Mohammad A. Salam

GRIN Verlag. Taschenbuch. Condition: Neu. Neuware - Master's Thesis from the year 2004 in the subject Biology - Zoology, grade: M SC, Jahangirnagar University (Faculty of Biological Sciences), course: Fisheries (Zoology), language: English, abstract: To inquest a pertinent technology of preservation seasonal (summer, autumn, winter) nutritive values, effects of potassium sorbate, gamma radiation and their combinations preserved at low temperature on sensory, chemical and microbial properties of freshwater prawn (*Macrobrachium rosenbergii*, de Man-1879) as well as isolation and identification of associated micro-flora with their sensitivity to potassium sorbate and gamma radiation were investigated during February 2003 to April 2004. Nutritive analysis marked seasonal and body-part variations in moisture, protein, lipid, ash, calcium and phosphorus contents i.e., summer, autumn and winter as 80.07%, 80.37%, 76.99%; 19.20%, 18.03%, 21.30%; 1.23%, 1.07%, 2.99%; 1.48%, 2.00%, 1.21%; 0.19%, 0.21%, 0.14% and 0.10%, 0.08% & 0.10% in edible-part while 77.27%, 76.27%, 73.34%; 16.45%, 17.03%, 19.79%; 1.40%, 1.02%, 4.33%; 6.60%, 7.33%, 6.25%; 2.24%, 2.78%, 1.67% and 0.17%, 0.15% & 0.21% in head-on respectively. Quality appraisal of treated (potassium sorbate-2%, gamma radiation-2kGy and their combination) and preserved (00C and 40C) samples were done by organoleptic, chemical and microbial evaluation at an interval of 7 days. The shelf life...



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