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Application of Hazard Analysis Critical Control Points (HACCP) System to Fish Salting

By Hassan Rabea Mohamed Ibrahim

GRIN Verlag GmbH Okt 2014, 2014. Taschenbuch. Book Condition: Neu. 211x151x11 mm. Neuware - Thesis (M.A.) from the year 2013 in the subject Food Technology, grade: very good, , course: Food science, language: English, abstract: Although salting is considered the oldest method for fish preservation but it does not depend on good scientific principles. So, the current study was performed to apply the hazard analysis critical control points (HACCP) system to fish salting steps. Mullet fish (*Mugil cephalus*) samples were obtained from Qaroun Lake, El-Fayoum, Egypt. Whole and gutted fish samples were dry salted with different salt concentrations (15%, 20% and 25% salt concentration ww) and stored under ambient temperature for 90 days. Sensory tests, physical, chemical and microbial hazard analyses of raw and salted products were determined. Results showed that raw mullet samples were free from any foreign objectives and highly accepted. Fish flesh contained (on wet weight basis) 78.11% moisture, 17.99% crude protein, 2.46% lipid and 1.39% ash content. The values of quality criteria were 6.50 pH, 1.54 mg MA /kg sample thiobarbituric acid (TBA) value, 25.24 mg/100g total volatile bases nitrogen (TVB-N) and 0.69 mg/100gm sample trimethylamine nitrogen (TMA-N). In addition, total plate count (TPC) and halophilic...


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