

B-68: Preparation of ambulthiyal by making a fish loaf

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Fish ambulthiyal was prepared by making a fish loaf, to find out the possibility of improving the quality and to reduce wastage. Type of fish used was Tuna.

Experiment 1, In treatment A (Control), fish ambulthial was made in the traditional way; treatment B - the fish loaf was made with salt and steamed for 1 h at 120°C. Then the ambulthial mixture was injected into the loaf and the loaf baked for 40 min at 10°C; treatment C - the loaf was made with ambulthial mixture and steamed for 100 min at 120°C; treatment D - the loaf was made with ambulthial mixture and steamed for 1 h at 120°C and then baked for 40 min at 100°C. The products were evaluated by a taste panel on the day of preparation. Treatment D gave the most acceptable fish product, scoring higher marks for juiciness and general acceptability, than other treatments.

Experiment 2 - Treatment D (Control); treatment Q - no garlic in ambulthial mixture; treatment R - no chillie in mixture; treatment S - mustard in mixture; treatment T - no goraka in ambulthial mixture. Products were stored at 18°C and 25°C. A taste panel was conducted on the day of preparation. Treatment R scored higher marks for each quality character than the other treatments. pH, lost water content and TBA value were measured at regular intervals. pH value increased significantly in treatment D, Q, R. & T at 18°C and in all the treatments at 25°C. There was no significant difference in loose water content at 18°C and 25°C and TBA values increased significantly at 18°C and 25°C during the storage period. The physical quality of fish loaf was not acceptable.

Experiment 3 - The best treatment of experiment 2 according to the taste panel scores was the control (treatment R) Treatment Y - ambulthial mixture without gamboge (goraka) mixed with fish was transferred into a mould and steamed for 1 h at 120°C for making the loaf then cut into pieces and dipped in goraka for 3 h and baked for 40 min at 100°C. The product was stored at 18° and 25°C. pH, loose water content and TBA values increased

significantly at 18°C and 25°C during the storage period. There was not much difference in rate of increase of pH and loose water content between the 2 treatments at 25°C and 18°C. The rate of increase of TBA value was more or less the same in both treatments at 18°C and much higher in treatment R at 25°C.

Total bacterial count was higher in samples stored at 25°C than 18°C as well as in treatment R than treatment Y.