

Danupon Jirawanpan 2006: Ready-to-eat Snake-head Fish HOR MOK in Retort Pouch.
Master of Home Economics, Major Field: Home Economics, Department of Home
Economics. Thesis Advisor: Assistant Professor Anchane Utaipatanacheep, D.Sc. 152 pages.
ISBN 974-16-2562-6

The objectives of this study were to develop a ready-to-eat snake-head fish HOR-MOK in retort pouch with good taste and longer shelflife. From the experiment, the optimized formula of HOR MOK was chosen from 3 basic recipes as mixed with 150 g LOBO brand red curry paste which was selected from 3 brands and 3 levels of curry paste. The color of the product was yellowish orange, and the L^* , a^* and b^* values were 48.55 ± 1.36 , 20.91 ± 0.61 and 39.99 ± 0.91 , respectively. A_w was 1.00 and pH was 6.26. The product was packed in $11 \times 16 \text{ cm}^2$ retort pouches, with net weight of 100 g, and then sterilized at 116°C with the pressure of 18 psig for 45 min. while the F_0 of the product was 8.711 min. The color of the product was yellowish orange, and the L^* , a^* and b^* values were 50.10 ± 1.10 , 20.95 ± 1.24 and 20.95 ± 1.24 , respectively. A_w was 1.00 and pH was 6.13. The chemical composition of the ready-to-eat snake-head fish HOR-MOK in retort pouch for energy, moisture, fat, carbohydrate, protein, crude fiber and ash was 147 Kcal, 71.16%, 10.57%, 1.51%, 11.39%, 2.82% and 2.55%, respectively. The microbiological examination for the total plate count was less than 10 CFU/g, Coliform was less than 3 CFU/g and thermophilic anaerobes were not found. Consumer test with 100 consumers using CLT method found that 84 % of consumers accepted the product with the preferable level of 'like moderately'. The study of the shelflife in 2 conditions, found that at room temperature ($28\text{-}32^\circ\text{C}$) the product could be stored longer than 6 weeks and all the properties did not change, however, there was a tendency to decrease the quality. The ASLT condition (45°C) revealed that the product could be stored less than 2 weeks and was unacceptable to the panelists. To predict the shelflife from Labuza's formula at 35°C products could be stored about 18 days.

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