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Physico-Chemical Characteristics, Fatty Acid Profile and Polycyclic Aromatic Hydrocarbon of Skipjack Tuna (*Katsuwonuspelamis*) Smoked in Smoking Material of Nutmeg Shells for Different Duration in Bitung Municipality, North Sulawesi Province

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Abstract: This study was aimed to analyze the physico-chemistry, the profile of fatty acid, the polycyclic aromatic hydrocarbon of skipjack tuna smoked with nutmeg shell as smoking material. Smoking was carried out in different duration, 3, 6, 9, 12 and 15 hours, respectively. Results showed that 15-hour smoking duration gave the lowest water content and A_w and the highest protein level ($P < 0.05$). Moreover, the fatty acid profile of the skipjack smoked for 15 hours exhibited the lowest *Saturated fatty acid* (SFA) and *Monounsaturated fatty acid* (MUFA) and significant difference ($P < 0.05$), the highest *Polyunsaturated fatty acid* (PUFA).

Keywords : nutmeg shell, skipjack smoking, fatty acid profile, polycyclic aromatic hydrocarbon.

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