

RESTY PUTRI ARIESTA SHANDY NPM. 16.03.3.1.1.00041. Pendugaan Umur Simpan Garam Fortifikasi Kelor Menggunakan Metode *Accelerated Shelf Life Testing* (ASLT) Model Arrhenius. Dibawah bimbingan **Iffan Maflahah, S.TP. M.Si.** dan **Dr. Ir. H. Asfan, MP.**

ABSTRAK

Garam fortifikasi kelor merupakan garam yang mengalami penambahan zat gizi menggunakan ekstrak kelor sebagai bahan tambahannya. Tujuan penelitian: 1) mengetahui pengaruh suhu penyimpanan dan jenis kemasan terhadap kualitas garam fortifikasi kelor. 2) mengetahui umur simpan produk garam fortifikasi kelor dengan menggunakan pendugaan umur simpan metode Accelerated Shelf Life Testing (ASLT). Metode yang digunakan yaitu metode Accelerated Shelf Life Testing (ASLT) Model Arrhenius. Hasil penelitian menunjukkan bahwa perbedaan suhu penyimpanan dan jenis kemasan berpengaruh nyata terhadap parameter warna uji organoleptik, vitamin A, dan vitamin C. Jenis kemasan berpengaruh nyata terhadap parameter kandungan NaCl dan uji warna (b). Umur simpan garam fortifikasi kelor menggunakan kemasan botol plastik PET suhu 60°C 16,71 bulan > kemasan botol plastik PET suhu 45°C 15,86 bulan > kemasan aluminium foil suhu 60°C 15,17 bulan > kemasan aluminium foil suhu 45°C 14,80 bulan > kemasan botol plastik PET suhu 30°C 14,30 bulan > kemasan aluminium foil suhu 30°C 13,47 bulan.

Kata Kunci: *Garam fortifikasi kelor, umur simpan, dan metode ASLT.*

RESTY PUTRI ARIESTA SHANDY NPM. 16.03.3.1.1.00041. Estimation Shelf Life of Moringa Fortification Salt Using Arrhenius Model ASLT (Accelerated Shelf Life Testing) Method. Under the guidance of **Iffan Maflahah, S.TP. M.Si.** and **Dr. Ir. H. Asfan, MP.**

ABSTRACT

Moringa fortification salt is a salt that has the addition of nutrients using Moringa extract as an additional ingredient. Research objectives: 1) determine the effect of storage temperature and type of packaging on the quality of Moringa fortification salt. 2) determine the shelf life of the Moringa fortification salt product by estimating the shelf life of the Accelerated Shelf Life Testing (ASLT) method. The method used is the Arrhenius Model Accelerated Shelf Life Testing (ASLT). The results showed that differences in storage temperature and type of packaging significantly affected the color parameters of organoleptic tests, vitamin A, and vitamin C. The type of packaging significantly affected the parameters of NaCl content and color test (b). Shelf life of Moringa fortification salt using PET plastic bottle packaging temperature 60°C 16,71 months > PET plastic bottle packaging temperature 45°C 15,86 months > aluminum foil packaging temperature 60°C 15,17 months > aluminum foil packaging temperature 45°C 14,80 months > PET plastic bottle packaging temperature 30°C 14,30 months > aluminum foil packaging temperature 30°C 13,47 months.

Keywords: *Moringa fortification salt, shelf life, and ASLT method.*