Survey the Effect of the Extraction from the Seed of *Annona squamosa* L. with Ethanol and the Chitosan on the *Ziziphus mauritiana* Lamk Storage

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Abstract: *Ziziphus mauritiana* L. belongs to *Rhamnaceae* *Z. mauritiana* L. consisting of 81%-97% pulp and easy to spoil (about 4-5 days in the natural environment). The seed of *Annona squamosa* L. consists of annonaceous acetogenins which affects on some bacterium, fungi and insects. This survey focuses on the *Ziziphus mauritiana* L. storage when it was using the extraction from the seed of *Annona squamosa* L. with ethanol 95% and the chitosan. The quality of *Ziziphus mauritiana* L. under the storage time was tested via the reducing weight, the reducing sugar, vitamin C and total soluble solid. The storage temperature was 25 °C. The control samples were tested when using only the extraction from the seed of *Annona squamosa* L. with ethanol 95% or using only the chitosan. The best result was when the samples were stored under the condition of 120 g/L of the extraction from the seed of *Ziziphus mauritiana* L. combining with 1% chitosan in 8 days. After 8 days storage, the surveyed products lost 9.31% weight; had 5.06% reducing sugar, 0.0167% vitamin C, and 8.86% total soluble solid.

Key words: *Annona squamosa* L., *Ziziphus mauritiana* L., chitosan, storage, annonaceous acetogenins.