**FORMULASI DAN UJI MUTU FISIK *HARD CANDY* SARI HERBA PEGAGAN (*Centella asiatica* (L.) Urban)**

**MISNA ROSALINDA HUTABARAT**

**NPM. 182114032**

# ABSTRAK

Pegagan (*Centella asiatica* (L.) Urban) memiliki kandungan glikosida, saponin, asiatikosida, madekasosida, saponin, asam asiatat, dan asam madeksatat.

Pada umumnya herba pegagan kurang populer di masyarakat Indonesia, padahal tanaman ini memiliki banyak manfaat. Di antaranya memiliki aktivitas anti oksidan, memperbaiki daya ingat, meningkatkan sistem imun, serta memiliki aktivitas antibakteri. Penggunaan sari pegagan kedalam *Hard Candy* merupakan salah satu alternatif dalam peningkatan kesehatan masyarakat. Tujuan penelitian ini adalah mengetahui formulasi dasar *Hard Candy* terbaik dari sukrosa dan sirup fruktosa, memformulasikan sari herba pegagan kedalam sediaan *Hard Candy,* mengetahui sifat fisik, stabilitas, dan keseragaman bobotnya.

Penelitian ini dilakukan dengan cara pembuatan formula dasar *Hard Candy* dengan variasi konsentrasi F1 (40:60), F2 (50:50), F3 (60:40), F4 (70:30), F5 (80:20) antara sukrosa dan sirup fruktosa, pembuatan *Hard Candy* Sari Herba Pegagan dengan kombinasi sari pegagan sebanyak 1% (F6) dan 3% (F7) yang ditambahkan pada formulasi dasar *Hard Candy* terbaik, kemudian dilakukan pemeriksaan mutu fisik *Hard Candy* Sari Herba Pegagan meliputi uji organoleptis, uji kadar air, uji stabilitas, dan uji keseragaman bobot.

Hasil penelitian menujukkan bahwa formulasi dasar *Hard Candy* yang terbaik terdapat pada F2 (50:50), dan hasil uji organoleptis *Hard Candy* Sari Herba Pegagan memberikan rasa, aroma, warna dan bentuk yang normal, dengan kadar air F2(0,7934%), F6 (0,874%) dan F7(0,6824%) (≤3,5%) sesuai dengan persyaratan SNI, stabil pada suhu 8-15°C dengan kemasan tertutup dan memiliki bobot yang seragam F2 (1740±51,63mg), F6 (1760±51,63mg) danF7 (1780±42,16mg) (penyimpangan bobot ≤5%)

***Kata Kunci*** *: Pegagan, Hard Candy, Mutu Fisik*

***FORMULATION AND PHYSICAL QUALITY TEST OF PEGAGAN HERBS EXTRACT HARD CANDY (Centella asiatica (L.) Urban)***

**MISNA ROSALINDA HUTABARAT
NPM. 182114032**

# *ABSTRACT*

*Pegagan (Centella asiatica (L.) Urban) contains glycosides, saponins, asiaticosides, madekasosides, saponins, asiatic acid, and madexate acid. In general, Pegagan herbs are less popular in Indonesian society, even though this plant has many benefits. Among them have anti-oxidant activity, improve memory, improve the immune system, and have antibacterial activity. The use of Pegagan extract into Hard Candy is one of the alternatives in improving public health. The objective of this research was to find out the best basic formulations of Hard Candy from sucrose and fructose syrup, formulate Pegagan herb extract into Hard Candy preparations, find out its physical properties, stability, and weight uniformity.*

*This research was carried out by making the basic formula of Hard Candy with variations in the concentration of F1 (40:60), F2 (50:50), F3 (60:40), F4 (70:30), F5 (80:20) between sucrose and fructose syrup, making Pegagan Herbs Extract Hard Candy with a combination of Pegagan extract as much as 1% (F6) and 3% (F7) added to the best Hard Candy basic formulation, then an examination of the physical quality of Pegagan Herbs Extract Hard Cand included organoleptic tests, water content test, stability test, and weight uniformity test.*

*Hard Candy was found in F2 (50:50), and the organoleptical test results of Pegagan Herbs Extract Hard Cand gave a normal taste, aroma, color and shape, with a moisture content of F2 (0.7934%), F6 (0.874%) and F7 (0.6824%) (≤3.5%) in accordance with SNI requirements, stable at a temperature of 8-15 °C with closed packaging and having a uniform weight of F2 (1740±51.63mg), F6 (1760±51.63mg) and F7 (1780±42.16mg) (weight deviation ≤5%)*

***Keywords:*** *Pegagan, Hard Candy, Physical Quality*