

ABSTRACT

ANTIOXIDANT ACTIVITY TEST OF ROSEMARY LEAF (*Rosmarinus officinalis* L.) AND STEVIA (*Stevia rebaudiana*) LEAF TEA WITH COMPARISON (65:35)

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Rosmarinus officinalis L., often called rosemary or rosmarin is an aromatic plant with needle-shaped leaves, which belongs to the *Lamiaceae* family. Free radicals can be counteracted by consuming antioxidants. Antioxidants are needed by the body to protect the body from free radical attack. Antioxidants are compounds or chemical components that in certain levels or amounts are able to inhibit or slow down damage due to the oxidation process. Antioxidant testing on steeped rosemary leaves and stevia leaves using the DPPH method. Observations were made at a wavelength of 522 nm, using the vitamin C ratio. Replications were carried out 3 times with variations in brewing time of 5 minutes, 10 minutes, and 15 minutes. From the results of the study, the % silencing of steeped rosemary leaf tea and stevia leaves in sample 1 (5 minutes) obtained an average of 42.32% sample 2 (10 minutes) 54.55% sample 3 (15 minutes) 48.02% using a sample solution of 0.5 ml. As for the results of the % silencing of vitamin C obtained a concentration of 1 ppm 30.90% concentration of 2 ppm 26.21% concentration of 3 ppm 53.03 concentration of 4 ppm 57.57% and concentration of 5 ppm 76.66% this test uses vitamin C 1 ml. Testing the activity of steeping tea rosemary leaves (*Rosemary officinalis* L.) and stevia leaves (*Stevia rebaudiana*) with the comparison used is vitamin C, it can be concluded that vitamin C has a high antioxidant activity compared to samples of steeping tea rosemary leaves and stevia saun. Further research can be carried out on rosemary leaf steeped tea and single stevia leaf steeped tea to determine the antioxidant levels in each of these simplisia.

Keyword : Rosemary, Antioxidants, DPPH, Vitamin C