

## INTISARI

**ASTUTI, M., 2018, ANALISIS VITAMIN C PADA DAUN KENIKIR SEGAR (*Cosmos caudatus* Kunth.) SECARA SPEKTROFOTOMETRI UV-VIS, KARYA TULIS ILMIAH D-III FARMASI UNIVERSITAS SETIA BUDI, SURAKARTA.**

Vitamin C disebut juga asam askorbat adalah vitamin yang mudah berubah akibat oksidasi, tetapi sangat berguna bagi manusia. Sumber utama vitamin C banyak terdapat pada buah-buahan dan sayur-sayuran segar. Penelitian ini bertujuan untuk mengetahui adanya vitamin C dan menetapkan kadar vitamin C pada daun kenikir segar secara spektrofotometri UV-Vis.

Penelitian diawali dengan determinasi tanaman kenikir. Dilakukan analisis kualitatif yang dilanjutkan dengan analisis kuantitatif secara spektrofotometri UV-Vis. Dengan kurva baku standar untuk menghasilkan persamaan  $y = a + bx$ . Variasi konsentrasi larutan baku vitamin C yaitu 3,54 ppm; 4,72 ppm; 5,9 ppm; 7,08 ppm; dan 8,26 ppm. Kemudian dilakukan operating time selama 15 menit dan penentuan panjang gelombang maksimal pada 240-280 nm. Daun kenikir segar ditumbuk kemudian centrifuge lalu analisis secara spektrofotometri UV-Vis.

Hasil penelitian secara analisis kualitatif menunjukkan adanya kandungan vitamin C pada daun kenikir segar dan secara analisis kuantitatif diperoleh kadar vitamin C sebesar 0,23 % b/b  $\pm$  0,028.

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Kata kunci: vitamin C, daun kenikir segar, spektrofotometri UV-VIS

## ABSTRACT

**ASTUTI, M., 2018, ANALYSIS OF VITAMIN C ON FRESH KENIKIR LEAVES (*Cosmos caudatus* Kunth.) IN UV-VIS SPECTROPHOTOMETRY, SCIENTIFIC WORKSHOP D-III PHARMACY SETIA BUDI UNIVERSITY, SURAKARTA.**

Vitamin C called also of ascorbic acid, that changes readily to oxidation, but very profitable for the people. The main source of vitamin C much found in of fresh fruits and vegetables. This research is a purpose to analysis of vitamin C on fresh kenikir leaves in UV-Vis spectrophotometry.

This research begins with determination of kenikir plant. A qualitative analysis continued quantitative analysis in UV-Vis spectrophotometry. With a curve standard raw to produce equation  $y = a + bx$ . Variation concentration of vitamin C the raw 3,54 ppm; 4,72 ppm; 5,9 ppm; 7,08 ppm; and 8,26 ppm. Then will be operating time during 15 minutes and determination of the maximum length wave on 240-280 nm. Fresh kenikir leaves crushed then centrifuge and then analysis in UV-Vis spectrophotometry.

The results of the research qualitative analysis shows that there has been the moisture content of vitamin C on fresh kenikir leaves and by quantitative analysis obtained levels of vitamin C of 0,23 % b/b  $\pm$  0,028.

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Keywords: vitamin C, fresh kenikir leaves, UV-VIS spectrophotometry