

ABSTRAK

Nama : Dimas Rizky Nawawi (1102017072)
Program Studi : Kedokteran Umum
Judul : Uji Antioksidan Ekstrak Kabiul (*caesalpinia bonducella*) Dengan Metode *Reducing Power* dan Tinjauannya Menurut Pandangan Islam

Latar Belakang: Antioksidan merupakan suatu senyawa atau komponen kimia yang dalam kadar atau jumlah tertentu mampu menghambat atau memperlambat kerusakan akibat proses oksidasi serta dapat menghambat terjadinya *Reactive Oxygen Species* atau *Reactive Nitrogen Species* (ROS/RNS). Salah satu antioksidan alami yang berasal dari tumbuhan adalah Kabiul (*Caesalpinia bonducella*) di dalamnya mengandung flavonoid mempunyai aktivitas sebagai antioksidan karena sifatnya sebagai akseptor yang baik terhadap radikal bebas. **Metode:** Jenis penelitian ini merupakan penelitian eksperimental menggunakan metode *Reducing Power* yang dilaksanakan di Laboratorium Herbal Universitas YARSI. Sampel yang digunakan dalam penelitian ini adalah ekstrak kabiul yang berasal dari Manna, Bengkulu. Tanaman ini diidentifikasi di Herbalium LIPI Cibinong. **Hasil:** Hasil pengujian antioksidan pada sampel kabiul, dengan urutan absorbansi dari paling tinggi ke rendah yaitu cangkang, kulit, daun dan isi dengan hasil 2.094; 0.418; 0.215 dan 0.68 berturut-turut, walaupun aktivitas antioksidan ini masih di bawah larutan standar trolox. **Kesimpulan:** Ekstrak etanol kabiul (*Caesalpinia bonducella*) mempunyai aktivitas antioksidan dengan metode pengukuran *reducing power* dengan urutan daya reduksi tertinggi hingga terendah berturut-turut mulai dari bagian cangkang, kulit, daun dan isi biji.

Kata Kunci : kabiul (*Caesalpinia bonducella*), antioksidan, peducing power

ABSTRACT

Name : Dimas Rizky Nawawi (1102017087)
Study Program : General Medicine
Title : Antioxidant Activity Assay of Bonduc (Caesalpinia bonducella)
With The Reducing Power Method and Its Purpose According to
Islamic View

Background: *Antioxidants are chemical compounds or components that in certain levels or amounts are able to inhibit or slow down damage due to the oxidation process and can inhibit the occurrence of reactive oxygen species or reactive nitrogen species (ROS / RNS). One of the natural antioxidants that comes from plants is Kebiul (Caesalpinia bonducella) which contains flavonoids which can act as antioxidants because they are good acceptors against free radicals.*
Method: *This type of research is an experimental research using the Reducing Power method which is carried out at the Herbal Laboratory of YARSI University. The sample used in this study was a white blister extract from Manna, Bengkulu. This plant has been uploaded to Herbalium LIPI Cibinong.*
Results: *Trolox as a comparison has the highest absorbance value of several concentrations tested, namely 25, 50, 100, 200, and 400 (μm) trolox got 2,400 results at the highest concentration while in the Kebiul group the antioxidant test results were obtained in the whitehead sample, in the order the absorbance from the highest to the lowest was shell, skin, leaves and the lowest was the contents with a result of 2.094; 0.418; 0.215 and the lowest is 0.68.*
Conclusion: *The ethanol extract of Kebiul (Caesalpinia bonducella) has antioxidant activity using the reducing power measurement method. In addition, the ethanol extract of blackhead that gave the highest to the lowest reduction power was the shell, skin, leaves, and seed contents, respectively.*

Keywords: *Caesalpinia bonducella, antioxidan, reducing power*