



Mar 06, 2020

Reducing Power

 [PLOS One](#)

DOI

<https://dx.doi.org/10.17504/protocols.io.bda2i2ge>

Jing Xu¹

¹Hainan University



Jing Xu

Hainan University

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.bda2i2ge>

External link: <https://doi.org/10.1371/journal.pone.0234435>

Protocol Citation: Jing Xu 2020. Reducing Power. [protocols.io](#) <https://dx.doi.org/10.17504/protocols.io.bda2i2ge>

Manuscript citation:

Zhou J, Yang Q, Zhu X, Lin T, Hao D, Xu J (2020) Antioxidant activities of *Clerodendrum cyrtophyllum* Turcz leaf extracts and their major components. PLoS ONE 15(6): e0234435. doi: [10.1371/journal.pone.0234435](https://doi.org/10.1371/journal.pone.0234435)

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: March 06, 2020

Last Modified: March 06, 2020

Protocol Integer ID: 33850

Keywords: inhibition percentage against extract concentration, trichloroacetic acid, ferric chloride, ml of phosphate buffer, graph of an inhibition percentage against extract concentration, absorbance, phosphate buffer, distilled water, ml of the extract, wa, extract, ph

Abstract

The reducing power of samples were assayed using the Guo et al. 1 ml of the extract was added to 2.5 ml of phosphate buffer (0.2 M, pH 6.6) and 2.5 ml of 1% potassium ferricyanide. After 20 min, 2.5 ml of 10% trichloroacetic acid (TCA) was added, followed by centrifugation at 3000 rpm for 10 min. The upper layer (2.5 ml) was mixed with 2.5 ml of distilled water and 0.5 ml of 0.1% ferric chloride, after 10 min, the absorbance was measured at 700 nm. EC_{50} was calculated from the graph of an inhibition percentage against extract concentration.

