

Mar 06, 2020

Extraction Procedure

 [PLOS One](#)

DOI

dx.doi.org/10.17504/protocols.io.bdawi2fe

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.bdawi2fe>

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

Protocol Citation: Jing Xu 2020. Extraction Procedure. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.bdawi2fe>

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: 33846

Keywords: extraction procedure dried leaf, herb disintegrator, resulting extract, extraction, ml ethyl acetate, distilled water, solvent

Abstract

Dried leaves of *C. cyrtophyllum* (150 g) were weighted and sieved (20 mesh) in an herb disintegrator (118 Swing, Zhejiang, China); the powdered samples were extracted twice according to previous protocol [10]. Solvent was removed from the combined filtrates and 61.44 g of ECE was obtained and redissolved in distilled water (500 ml). The solution was partitioned with 3×250 ml petroleum ether (60–90 °C), 3×250 ml dichloromethane, 3×250 ml ethyl acetate and 3×250 ml *n*-butanol. The resulting extracts were concentrated to yield sub-fractions, PEF, DMF, EAF, BAF and RF, which were 0.65, 5.53, 4.13, 13.28 and 36.97 g, respectively. The samples were stored at 4 °C.

Troubleshooting

