

[< Back to results](#) | 1 of 1[↗ Export](#) [↓ Download](#) [🖨 Print](#) [✉ E-mail](#) [📄 Save to PDF](#) [☆ Add to List](#) [More... >](#)[Full Text](#)[Data in Brief](#) • [Open Access](#) • Volume 39 • December 2021 • Article number 107485**Document type**Data Paper • [Gold Open Access](#) • [Green Open Access](#)**Source type**

Journal

ISSN

23523409

DOI

10.1016/j.dib.2021.107485

[View more](#) ✓

LCMS dataset on compounds in *Syzygium polyanthum* (Wight) Walp. leaves variant from the East coast of Peninsular Malaysia

Anuar T.A.F.T.^a, Ismail A.^b ✉, Mohamed Suffian I.F.^c, Abdul Hamid A.A.^d, Arzmi M.H.^b, Omar M.N.^d[📁 Save all to author list](#)^a Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, Kuantan, 25200, Pahang, Malaysia^b Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry, International Islamic University Malaysia, Kuantan, 25200, Pahang, Malaysia^c Department of Pharmaceutical Chemistry, Kulliyah of Pharmacy, International Islamic University Malaysia, Kuantan, 25200, Pahang, Malaysia^d Department of Biotechnology, Kulliyah of Science, International Islamic University Malaysia, Kuantan, 25200, Pahang, Malaysia[📄 View PDF](#) [Full text options](#) ✓[Abstract](#)[Author keywords](#)[Reaxys Chemistry database information](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

The data presented here is the liquid chromatography and mass spectrometry (LC-MS) profile of phytochemical compounds in the aqueous extract of *Syzygium polyanthum* (Wight) Walp. leaves. This plant is consumed raw and sometimes added to local dishes of people in Southeast Asia countries. Most importantly, it has ethnomedicinal values mainly in treating diabetes and hypertension, and at the same time, this plant has anti-microbial, anti-oxidant, anti-cancer, and anti-tumor properties [1].

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)**Related documents**

Preliminary analysis of the antidiabetic activity of Indonesian polyherbal formulation

Abdillah, S. , Lestari, A.G. , Monika, P. (2021) *Journal of Natural Remedies*Hematological Profiles of Benzene-Induced Rats Treated with Ethanolic Extract of *Syzygium Polyanthum*Komaria, R. , Nyoman Ehrich Lister, I. , Lie, S. (2021) *InHeNce 2021 - 2021 IEEE International Conference on Health, Instrumentation and Measurement, and Natural Sciences*Neuroprotective Effect of *Syzygium Polyanthum* Extract on TNF Alpha and Dopamine Levels in Benzene-induced RatsTheo, S. , Ferdinand Ginting, S. , Chiuman, L. (2021) *InHeNce 2021 - 2021 IEEE International Conference on Health, Instrumentation and Measurement, and Natural Sciences*[View all related documents based on references](#)[Find more related documents in Scopus based on:](#)[Authors >](#) [Keywords >](#)

There are chemical composition variations reported between the same species of different geographical locations, which eventually affect the plant's therapeutic potential [2,3]. This dataset represents the identified compounds for *S. polyanthum* (Wight) Walp. leaves, a variant collected from Kuantan, a city located in the Pahang state on the East Coast of Peninsular Malaysia. The leaves were then dried in an open-air at room temperature for three weeks, ground, and then macerated in water inside a bath-sonicator, freeze-dried, and then run using LCMS. The LCMS was run using the ultra-performance liquid chromatography equipped with an electrospray time-of-flight mass spectrometer detector, operated in a negative-ion mode. The mass spectral features from samples raw data were matched with Traditional Medicine (en) and Waters Screening libraries in the Waters UNIFI™ Scientific Information System software version 1.7 (Waters, USA) for compounds identification. © 2021

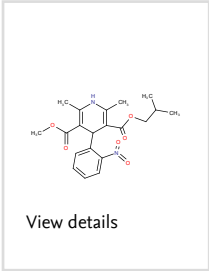
Author keywords

LCMS; Salam; Serai kayu; *Syzygium polyanthum*; Traditional plant

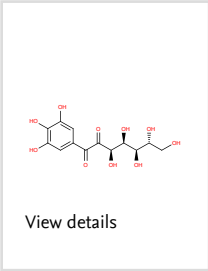
Reaxys Chemistry database information [i](#)

Substances

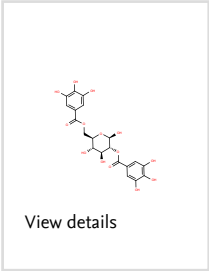
[View all substances \(7\)](#)



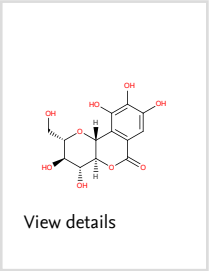
[View details](#)



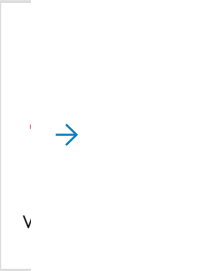
[View details](#)



[View details](#)



[View details](#)



[View details](#)

Powered by [Reaxys](#)

[SciVal Topics](#) [i](#)

[Metrics](#)

[Funding details](#)

References (7)

[View in search results format >](#)

All

[Export](#) [Print](#) [E-mail](#) [Save to PDF](#) [Create bibliography](#)

- 1 Ismail, A., Ahmad, W.A.N.W.
Syzygium polyanthum (Wight) Walp: a potential phytomedicine (2019) *Pharmacogn. J.*, 11 (2), pp. 110-119.
- 2 Abdulrahman, M.D.
Chemotaxonomic discrimination of *Syzygium polyanthum* cultivars (serai kayu and serai kayu hutan) based on FTIR spectroscopy (2019) *J. Agrobiotechnol.*, 10 (1), pp. 1-9.
- 3 Dewijanti, I.
Effects of the various source areas of Indonesian bay leaves (*Syzygium polyanthum*) on chemical content and antidiabetic activity (2020) *Biodiversitas*, 21 (3), pp. 1190-1195. Cited 4 times.

□ 4 Ismail, A.
(2021)
T.A.F.T. Anuar Phytochemical Compounds in *Syzygium polyanthum* (Wight)
Walp. leaves collected from Kuantan, Pahang, Malaysia: LCMS dataset”,
Mendeley Data, V1, doi:

□ 5 Sarwa, K.K.
Standardization and quality evaluation of botanicals with special reference to
marker components
(2021) *Evidence Based Validation of Traditional Medicines*, pp. 405-426. Cited
2 times.
S.C. Mandal R. Chakraborty S. Sen Springer Singapore

□ 6 Balekundri, A., Mannur, V.
Quality control of the traditional herbs and herbal products: a review
(2020) *Future J. Pharm. Sci.*, 6 (1), pp. 1-9. Cited 8 times.

□ 7 Ismail, A., Rahim, E.N.A.A., Omar, M.N., Ahmad, W.A.N.W.
Antihypertensive assay-guided fractionation of *syzygium*
polyanthum leaves and phenolics profile analysis using lc-
qtof/ms (Open Access)

(2020) *Pharmacognosy Journal*, 12 (6), pp. 1670-1692.
<http://www.phcogj.com/sites/default/files/Pharmacognj-12-6s-1670.pdf>
doi: 10.5530/pj.2020.12.227

[View at Publisher](#)

🔍 Ismail, A.; Department of Fundamental Dental and Medical Sciences, Kulliyah of
Dentistry, International Islamic University Malaysia, Kuantan, Pahang, Malaysia;
email:dr_azlini@iiium.edu.my

© Copyright 2021 Elsevier B.V., All rights reserved.

[< Back to results](#) | 1 of 1

[^ Top of page](#)

About Scopus

[What is Scopus](#)
[Content coverage](#)
[Scopus blog](#)
[Scopus API](#)
[Privacy matters](#)

Language

[日本語に切り替える](#)
[切换到简体中文](#)
[切换到繁體中文](#)
[Русский язык](#)

Customer Service

[Help](#)
[Contact us](#)

ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

 RELX