



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُنشِئُ سِتْقِي إِسْلَامًا رَافِعًا بِغَسِّاءِ مَلِكِيَّةٍ

(Company No. 101067-P)

KULLIYAH OF PHARMACY

Reference: IIUM/308/15/2/1/NMPC19-1/16

Date: 10th October 2019

Norhazilah Muhamad
Pusat Pengajian Sains Kesihatan
Universiti Sains Malaysia
Kampus Kesihatan
16150 Kubang Kerian
Kelantan

Dear Sr.,

Assalamualaikum Wrt.



PLANT SPECIES IDENTIFICATION

Kindly be informed that the plant specimen submitted for identification is confirmed as follows:

Voucher No.	Family Name	Scientific Name	Local Name
PIIUM 0229-2	Fagaceae	<i>Quercus infectoria</i> G.Olivier. (The tree species from which the gall is formed)	Manjakani (The gall)


Student's name : Norhazilah Muhamad
Supervisor's name : Dr. Tan Suat Cheng
Herbarium : Kulliyyah of Pharmacy
Person in-charged : Asst. Prof. Dr. Norazian Mohd Hassan
Identified by : Dr. Shamsul Khamis

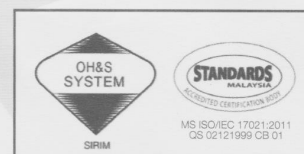
It should be noted that we are not involved with anything as a result of research conducted by the host.

Thank you and wassalam.

Sincerely,


ASST. PROF. DR. NORAZIAN BINTI MOHD HASSAN
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Pahang


DR. SHAMSUL KHAMIS
Botanist
Herbarium UKMB
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43600 Bangi, Selangor



CERTIFIED TO ISO 9001:2008
CERT. NO. : AR 3074

Garden of Knowledge and Virtue

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Voucher specimen no.: PIUM 0229-2

No.	Type of information and details
1.	Family name of the specimen Fagaceae [1]
2.	Scientific name of the specimen, (including the authority – if any) <i>Quercus infectoria</i> G.Olivier [1]
3.	Local name Manjakani (English common name/s: Oak galls, Magic nuts) [2,3]
4.	Collector's name/s (with e-mail address if any) Norhazilah Muhamad (norhazilah@yahoo.com)
5.	Student's name, matric no. & Institution Norhazilah Muhamad, P-SKD0001/16(R) & PPSK, USM Kelantan
6.	Supervisor's name (with title) Dr Tan Suat Cheng
7.	Date of collection 24 July 2019
8.	Plant part/s Gall (UP)[VS-3]
9.	Locality where the plant was collected, (including latitude and longitude – if any) Purchased from Kedai Ubat Heng De, Kota Bharu, Kelantan
10.	Name of the person who determined the identification Dr. Shamsul Khamis
11.	Altitude From sea level to c.1,700 m. [4]
12.	Habitat or type of plant community Mixed scrub and deciduous woodland. Also found co-existing with other species of Oak in vegetation known as longos forests with abundant marsh areas dominated by arboreal Oak species. [4]
13.	Habit The galls formed on the young twigs of <i>Q. infectoria</i> tree, as a result of the deposition of the eggs of the gall-wasp <i>Adleriagallae-tinctoriae</i>. [3]
14.	Any other details about the plant that may be important [Example: flower colour, soil type, slope, aspect, plant height and width, associated species, bark colour and type, sap (eg. milky, resinous, etc.), distinctive odour, dioecy, abundance, pollinators, herbivory, etc.] Galls are globular in shape, 10 to 25 mm in diameter. They have a short, basal stalk and numerous rounded projections on the surface. The galls are hard and heavy, usually sinking in water. Bluish- or olive-green in colour. [3]

15.	<p>Plant/sample photos (various plant parts, preferably original photos)</p> <div></div> <p>The galls from <i>Q. infectoria</i></p>
16.	<p>References</p> <p>[1] http://www.theplantlist.org/tpl1.1/record/kew-173331</p> <p>[2] http://www.globinmed.com/index.php?option=com_content&view=article&id=105888:quercus-infectoria-g-olivier&catid=286&Itemid=357</p> <p>[3] Abdul Haque, A. S.; Ahmad, W.; ecology of <i>Quercus infectoria</i> Olivier – Galls: A Review. <i>Hippocratic Journal of Unani Medicine</i>, 11(3), 105-118.</p> <p>[4] https://www.iucnredlist.org/species/194176/56059946#habitat-ecology</p>