

LAMPIRAN
Lampiran 1
Hasil Determinasi Biji Kopi Arabika dan Biji Kopi Robusta

HERBARIUM JATINANGOR
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LEMBAR IDENTIFIKASI TUMBUHAN
No.66/HB/12/2019

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Departemen Biologi FMIPA UNPAD, dengan ini menerangkan bahwa :

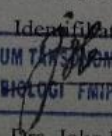
Nama : Erli Berlianti
NPM : 11161021
Instansi : Universitas Bhakti Kencana
Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
Tanggal Koleksi : 20 Desember 2019
Lokasi : Toraja

Hasil Identifikasi,
Nama Ilmiah : *Coffea arabica* L.
Sinonim : *Coffea arabica* var. *amarella* A.Froehner
Nama Lokal : Kopi Arabika
Suku/Famili : Rubiaceae

Klasifikasi (Hirarki Taksonomi)
Kingdom : Plantae
Divisi : Magnoliophyta
Class : Magnoliopsida
Ordo : Gentianales
Famili : Rubiaceae
Genus : *Coffea*
Species : *Coffea arabica* L.

Referensi:
Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*. Wolter-Noordhoff NV. Groningen.
Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*. Columbia University Press. New York
The Plant List. *Website Dunia Tumbuhan*. <http://www.theplantlist.org/tpl1.1/record/kew-713>
. Diakses tanggal, 24 Desember 2019.

Jatinangor, 24 Desember 2019

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
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Tanggal Koleksi : 20 Desember 2019
Lokasi : Toraja

Hasil Identifikasi,

Nama Ilmiah : *Coffea canephora* Pierre ex A.Froehner
Sinonim : *Coffea robusta* L.Linden
Nama Lokal : Kopi robusta
Famili : Rubiaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom	Plantae
Divisi	Magnoliophyta
Class	Magnolipsida
Ordo	Gentianales
Famili	Rubiaceae
Genus	<i>Coffea</i>
Species	<i>Coffea canephora</i> Pierre ex A.Froehner

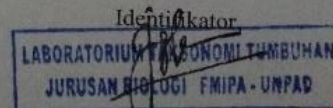
Referensi:

Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*. Wolter-Noordhoff NV. Groningen.

Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*. Columbia University Press. New York

The Plant List. *Website Dunia Tumbuhan*. <http://www.theplantlist.org/tpl1.1/record/kew-713>
. Diakses tanggal, 24 Desember 2019.

Jatinangor, 24 Desember 2019



Dis. Joko Kusmoro, M.P.
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Lampiran 2
Perhitungan rendemen ekstrak biji kopi arabika, kopi robusta, dan sampel bubuk kopi arabika Toraja.

$$\% \text{ rendemen} = \frac{\text{berat ekstrak}}{\text{berat simplisia}} \times 100\%$$

a. Rendemen ekstrak biji kopi arabika Bituang

1. $\% \text{ rendemen 1} = \frac{3,11 \text{ gram}}{50 \text{ gram}} \times 100\% = 6,22\%$
2. $\% \text{ rendemen 2} = \frac{2,97 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,94\%$
3. $\% \text{ rendemen 3} = \frac{3,20 \text{ gram}}{50 \text{ gram}} \times 100\% = 6,40\%$
4. $\% \text{ rendemen rata-rata} = 6,19 \pm 0,23\%$

b. Rendemen ekstrak biji kopi arabika Kalosi

1. $\% \text{ rendemen 1} = \frac{2,96 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,92\%$
2. $\% \text{ rendemen 2} = \frac{2,91 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,82\%$
3. $\% \text{ rendemen 3} = \frac{2,88 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,76\%$
4. $\% \text{ rendemen rata-rata} = 5,83 \pm 0,08\%$

c. Rendemen ekstrak biji kopi arabika Sapan

1. $\% \text{ rendemen 1} = \frac{3,21 \text{ gram}}{50 \text{ gram}} \times 100\% = 6,42\%$
2. $\% \text{ rendemen 2} = \frac{3,25 \text{ gram}}{50 \text{ gram}} \times 100\% = 6,50\%$
3. $\% \text{ rendemen 3} = \frac{3,17 \text{ gram}}{50 \text{ gram}} \times 100\% = 6,34\%$
4. $\% \text{ rendemen rata-rata} = 6,42 \pm 0,08\%$

d. Rendemen ekstrak biji kopi robusta Toraja

1. $\% \text{ rendemen 1} = \frac{2,87 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,74\%$
2. $\% \text{ rendemen 2} = \frac{2,69 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,38\%$
3. $\% \text{ rendemen 3} = \frac{2,73 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,46\%$
4. $\% \text{ rendemen rata-rata} = 5,53 \pm 0,19\%$

e. Rendemen ekstrak biji kopi robusta Lampung

1. $\% \text{ rendemen 1} = \frac{2,45 \text{ gram}}{50 \text{ gram}} \times 100\% = 4,90\%$
2. $\% \text{ rendemen 2} = \frac{2,68 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,38\%$

$$3. \% \text{ rendemen } 3 = \frac{2,99 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,98\%$$

$$4. \% \text{ rendemen rata-rata} = 5,41 \pm 0,54\%$$

f. Rendemen ekstrak biji kopi robusta Jawa Barat

$$1. \% \text{ rendemen } 1 = \frac{2,61 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,22\%$$

$$2. \% \text{ rendemen } 2 = \frac{2,76 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,52\%$$

$$3. \% \text{ rendemen } 3 = \frac{2,70 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,40\%$$

$$4. \% \text{ rendemen rata-rata} = 5,38 \pm 0,15\%$$

g. Rendemen ekstrak sampel A

$$1. \% \text{ rendemen } 1 = \frac{2,36 \text{ gram}}{50 \text{ gram}} \times 100\% = 4,72\%$$

$$2. \% \text{ rendemen } 2 = \frac{2,42 \text{ gram}}{50 \text{ gram}} \times 100\% = 4,84\%$$

$$3. \% \text{ rendemen } 3 = \frac{2,47 \text{ gram}}{50 \text{ gram}} \times 100\% = 4,94\%$$

$$4. \% \text{ rendemen rata-rata} = 4,83 \pm 0,11\%$$

h. Rendemen ekstrak sampel B

$$1. \% \text{ rendemen } 1 = \frac{2,57 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,24\%$$

$$2. \% \text{ rendemen } 2 = \frac{2,61 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,22\%$$

$$3. \% \text{ rendemen } 3 = \frac{2,75 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,50\%$$

$$4. \% \text{ rendemen rata-rata} = 5,32 \pm 0,16\%$$

i. Rendemen ekstrak sampel C

$$1. \% \text{ rendemen } 1 = \frac{2,48 \text{ gram}}{50 \text{ gram}} \times 100\% = 4,96\%$$

$$2. \% \text{ rendemen } 2 = \frac{2,69 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,38\%$$

$$3. \% \text{ rendemen } 3 = \frac{2,58 \text{ gram}}{50 \text{ gram}} \times 100\% = 5,16\%$$

$$4. \% \text{ rendemen rata-rata} = 5,17 \pm 0,21\%$$

Lampiran 3

Tabel nilai eigen values

Komponen utama	Nilai eigen values
PC 1	13,59
PC 2	4,27
PC 3	1,29