

Lampiran

Lampiran 1

Hasil Determinasi Tanaman Rimpang Kunyit Putih dan Rimpang Kunyit



INSTITUT TEKNOLOGI BANDUNG SEKOLAH ILMU DAN TEKNOLOGI HAYATI

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Nomor : 2413/I.CO2.2/PL/2019.
Hal : Determinasi tumbuhan

3 Mei 2019

Kepada Yth.
Ketua
Sekolah Tinggi Farmasi Bandung
Jalan Soekarno Hatta No. 754
Bandung

Memperhatikan surat permintaan Saudara dalam surat No. 587/WKI-SI/III/2019 tanggal 2 maret 2019 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan determinasi oleh staf kami, tumbuhan yang dibawa oleh Sdr. Firda Dwi Nurfirdausa (NPM : 11151042), adalah :

Sampel 1 (Kunyit putih)

Divisi : Magnoliophyta
Kelas : Liliopsida (Monocots)
Anak kelas : Zingiberidae
Bangsa : Zingiberales
Nama suku / familia : Zingiberaceae
Nama jenis / species : *Kaempferia rotunda* L.
Sinonim : *Kaempferia longa* Jacq., *Kaempferia versicolor* Salisb.
Nama umum : Temu rapet, temu pepet (Indonesia)
Buku acuan : 1. Cronquist, A. 1981. An Integrated System of Classification of Flowering Plants. Columbia University Press, New York. pp. Xiii – Xviii.
2. Newman, M., Lhuillier, A., & Poulsen, A.D. 2004. Checklist of the Zingiberaceae of Malesia. BLUMEA Supplement. 16: 1 – 163.
3. Backer, C.A. & Bakhuizen van den Brink, Jr., R.C. 1968. Flora of Java. Volume III. Wolters - Noordhoff N.V. Groningen, the Netherlands. pp. 68.

Sampel 2 (Kunyit)

Divisi : Magnoliophyta
Kelas : Liliopsida (Monocots)
Anak kelas : Zingiberidae
Bangsa : Zingiberales
Nama suku / familia : Zingiberaceae
Nama jenis / species : *Curcuma longa* L.
Sinonim : *Curcuma domestica* Valetton
Nama umum : Kunyit (Indonesia)
Buku acuan : 1. Cronquist, A. 1981. An Integrated System of Classification of Flowering Plants. Columbia University Press, New York. pp. Xiii – Xviii.
2. Newman, M., Lhuillier, A., & Poulsen, A.D. 2004. Checklist of the Zingiberaceae of Malesia. BLUMEA Supplement. 16: 1 – 163.
3. Backer, C.A. & Bakhuizen van den Brink, Jr., R.C. 1968. Flora of Java. Volume III. Wolters - Noordhoff N.V. Groningen, the Netherlands. pp. 72. (sebagai *Curcuma domestica* Val.).

Hasil Determinasi Rimpang Kunyit Putih dan Rimpang Kunyit (Lanjutan)

Demikian yang kami sampaikan. Atas perhatian dan kerjasama yang diberikan, kami ucapkan terima kasih.

Wakil Dekan Bidang Sumber Daya,



Dr. Iriana
NIP. 196205071988032001

Tembusan :
Dekan SITH ITB, sebagai laporan

Lampiran 2.

Perhitungan Rendemen Ekstrak Rimpang Kunyit Putih, Ekstrak Rimpang Kunyit, dan Ekstrak Jamu Kunyit Putih

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

a. Rendemen Ekstrak Kunyit Putih Jawa Barat

$$1. \frac{18,89}{150} \times 100\% = 12,59\%$$

$$2. \frac{18,31}{150} \times 100\% = 12,21\%$$

$$3. \frac{19,32}{150} \times 100\% = 12,88\%$$

$$\% \text{Rata-rata} = \frac{12,59+12,21+12,88}{3} = 12,56\%$$

$$\pm SD = 0,274$$

b. Rendemen Ekstrak Kunyit Putih Jawa Tengah

$$1. \frac{17,78}{150} \times 100\% = 11,85\%$$

$$2. \frac{17,80}{150} \times 100\% = 11,86\%$$

$$3. \frac{18,66}{150} \times 100\% = 12,44\%$$

$$\% \text{Rata-rata} = \frac{11,85+11,86+12,44}{3} = 12,05\%$$

$$\pm SD = 0,276$$

c. Rendemen Ekstrak Kunyit Putih Jawa Timur

$$1. \frac{17,99}{150} \times 100\% = 11,99\%$$

$$2. \frac{20,03}{150} \times 100\% = 13,35\%$$

$$3. \frac{18,13}{150} \times 100\% = 12,08\%$$

$$\% \text{Rata-rata} = \frac{11,99+13,35+12,08}{3} = 12,47\%$$

$$\pm SD = 0,621$$

d. Rendemen Ekstrak Kunyit Jawa Barat

$$1. \frac{19,49}{150} \times 100\% = 12,99\%$$

$$2. \frac{19,08}{150} \times 100\% = 12,72\%$$

$$3. \frac{18,95}{150} \times 100\% = 12,63\%$$

$$\%Rata-rata = \frac{12,99 + 12,72 + 12,63}{3} = 12,78\%$$

$$\pm SD = 0,153$$

e. Rendemen Ekstrak Kunyit Jawa Tengah

$$1. \frac{18,86}{150} \times 100\% = 12,57\%$$

$$2. \frac{17,72}{150} \times 100\% = 11,81\%$$

$$3. \frac{17,36}{150} \times 100\% = 11,57\%$$

$$\%Rata-rata = \frac{12,57 + 11,81 + 11,57}{3} = 11,98\%$$

$$\pm SD = 0,427$$

f. Rendemen Ekstrak Kunyit Jawa Timur

$$1. \frac{16,95}{150} \times 100\% = 11,30\%$$

$$2. \frac{18,76}{150} \times 100\% = 12,51\%$$

$$3. \frac{17,51}{150} \times 100\% = 11,67\%$$

$$\%Rata-rata = \frac{11,30 + 12,51 + 11,67}{3} = 11,83\%$$

$$\pm SD = 0,506$$

g. Rendemen Ekstrak Sampel A

$$1. \frac{1,14}{50} \times 100\% = 2,28\%$$

$$2. \quad \frac{0,98}{50} \times 100\% = 1,96\%$$

$$3. \quad \frac{1,05}{50} \times 100\% = 2,10\%$$

$$\% \text{Rata-rata} = \frac{2,28 + 1,96 + 2,10}{3} = 2,11\%$$

$$\pm SD = 0,131$$

h. Rendemen Ekstrak Sampel B

$$1. \quad \frac{0,87}{50} \times 100\% = 1,74\%$$

$$2. \quad \frac{0,91}{50} \times 100\% = 1,84\%$$

$$3. \quad \frac{0,85}{50} \times 100\% = 1,70\%$$

$$\% \text{Rata-rata} = \frac{1,74 + 1,84 + 1,70}{3} = 1,76\%$$

$$\pm SD = 0,058$$

i. Rendemen Ekstrak Sampel C

$$1. \quad \frac{0,95}{50} \times 100\% = 1,90\%$$

$$2. \quad \frac{0,86}{50} \times 100\% = 1,72\%$$

$$3. \quad \frac{0,93}{50} \times 100\% = 1,86\%$$

$$\% \text{Rata-rata} = \frac{1,90 + 1,72 + 1,86}{3} = 1,83\%$$

$$\pm SD = 0,077$$

Lampiran 3.

Data X dan Y Kunyit Putih

semua baku...	3999.4335	3997.5698	3995.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	
	1	2	3	4	5	6	7	8	9	10	
KPJ/B1	1	13,0000	14,0000	11,0000	12,0000	11,0000	11,0000	9,0000	11,0000	9,0000	10,0000
KPJ/B2	2	15,0000	20,0000	22,0000	15,0000	12,0000	16,0000	17,0000	17,0000	18,0000	16,0000
KPJ/B3	3	14,0000	13,0000	13,0000	12,0000	14,0000	13,0000	13,0000	11,0000	6,0000	5,0000
KPJ/B4	4	17,0000	16,0000	13,0000	11,0000	11,0000	13,0000	17,0000	15,0000	17,0000	16,0000
KPJ/B5	5	14,0000	16,0000	12,0000	8,0000	8,0000	8,0000	10,0000	13,0000	11,0000	7,0000
KPJ/B6	6	11,0000	11,0000	7,0000	8,0000	13,0000	8,0000	2,0000	6,0000	8,0000	7,0000
KPJ/TENG1	7	21,0000	22,0000	27,0000	31,0000	28,0000	23,0000	30,0000	31,0000	26,0000	25,0000
KPJ/TENG2	8	15,0000	15,0000	16,0000	17,0000	18,0000	12,0000	9,0000	16,0000	19,0000	16,0000
KPJ/TENG3	9	16,0000	15,0000	15,0000	17,0000	17,0000	15,0000	14,0000	12,0000	11,0000	12,0000
KPJ/TENG4	10	21,0000	16,0000	13,0000	15,0000	18,0000	19,0000	20,0000	24,0000	23,0000	19,0000
KPJ/TENG5	11	14,0000	13,0000	11,0000	10,0000	13,0000	16,0000	16,0000	17,0000	14,0000	13,0000
KPJ/TENG6	12	20,0000	18,0000	16,0000	20,0000	23,0000	21,0000	16,0000	17,0000	20,0000	20,0000
KPJ/TM1	13	9,0000	12,0000	16,0000	10,0000	4,0000	8,0000	8,0000	8,0000	8,0000	6,0000
KPJ/TM2	14	11,0000	12,0000	14,0000	11,0000	9,0000	10,0000	10,0000	6,0000	5,0000	7,0000
KPJ/TM3	15	9,0000	10,0000	7,0000	1,0000	1,0000	4,0000	9,0000	12,0000	13,0000	9,0000
KPJ/TM4	16	9,0000	11,0000	11,0000	6,0000	9,0000	8,0000	3,0000	3,0000	4,0000	5,0000
KPJ/TM5	17	11,0000	12,0000	14,0000	11,0000	9,0000	10,0000	10,0000	6,0000	5,0000	7,0000
KPJ/TM6	18	10,0000	13,0000	10,0000	6,0000	6,0000	6,0000	7,0000	9,0000	3,0000	3,0000

Lampiran 4.

Data X dan Y Kunyit

semua baku.	3999.4335	3997.5698	3995.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	
	1	2	3	4	5	6	7	8	9	10	
KKJ/B1	1	41,0000	41,0000	44,0000	46,0000	42,0000	44,0000	45,0000	43,0000	46,0000	47,0000
KKJ/B2	2	47,0000	45,0000	42,0000	43,0000	47,0000	47,0000	48,0000	48,0000	48,0000	49,0000
KKJ/B3	3	41,0000	44,0000	47,0000	47,0000	46,0000	45,0000	49,0000	49,0000	49,0000	49,0000
KKJ/B4	4	54,0000	49,0000	46,0000	46,0000	48,0000	50,0000	48,0000	44,0000	46,0000	49,0000
KKJ/B5	5	55,0000	57,0000	56,0000	56,0000	56,0000	56,0000	54,0000	56,0000	57,0000	52,0000
KKJ/B6	6	64,0000	59,0000	46,0000	46,0000	48,0000	50,0000	48,0000	44,0000	46,0000	49,0000
KKJ/TENG1	7	45,0000	47,0000	51,0000	47,0000	42,0000	46,0000	50,0000	49,0000	52,0000	54,0000
KKJ/TENG2	8	51,0000	56,0000	50,0000	44,0000	48,0000	48,0000	46,0000	49,0000	47,0000	44,0000
KKJ/TENG3	9	55,0000	57,0000	56,0000	56,0000	56,0000	56,0000	54,0000	56,0000	57,0000	52,0000
KKJ/TENG4	10	65,0000	69,0000	66,0000	60,0000	57,0000	58,0000	55,0000	56,0000	63,0000	62,0000
KKJ/TENG5	11	48,0000	46,0000	45,0000	46,0000	51,0000	53,0000	47,0000	46,0000	42,0000	45,0000
KKJ/TENG6	12	77,0000	75,0000	78,0000	83,0000	81,0000	79,0000	74,0000	73,0000	77,0000	75,0000
KKJ/TM1	13	57,0000	60,0000	61,0000	60,0000	58,0000	54,0000	54,0000	55,0000	56,0000	59,0000
KKJ/TM2	14	62,0000	64,0000	62,0000	59,0000	65,0000	70,0000	70,0000	67,0000	61,0000	61,0000
KKJ/TM3	15	60,0000	63,0000	63,0000	60,0000	57,0000	61,0000	66,0000	62,0000	59,0000	58,0000
KKJ/TM4	16	61,0000	58,0000	52,0000	53,0000	59,0000	59,0000	59,0000	62,0000	59,0000	56,0000
KKJ/TM5	17	64,0000	64,0000	64,0000	58,0000	57,0000	64,0000	65,0000	61,0000	61,0000	66,0000
KKJ/TM6	18	61,0000	60,0000	57,0000	55,0000	53,0000	56,0000	55,0000	57,0000	56,0000	57,0000

Lampiran 5. Data X dan Y Kunyit Putih dan Kunyit

semua baku	3999.4335	3997.5698	3995.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	
	1	2	3	4	5	6	7	8	9	10	
KPJ1	1	13,000	14,000	11,000	12,000	11,000	11,000	9,000	11,000	9,000	10,000
KPJ2	2	15,000	20,000	22,000	15,000	12,000	16,000	17,000	17,000	18,000	16,000
KPJ3	3	14,000	13,000	13,000	12,000	14,000	13,000	13,000	11,000	6,000	5,000
KPJ4	4	17,000	16,000	13,000	11,000	11,000	13,000	17,000	15,000	17,000	16,000
KPJ5	5	14,000	16,000	12,000	8,000	8,000	8,000	10,000	13,000	11,000	7,000
KPJ6	6	11,000	11,000	7,000	8,000	13,000	8,000	2,000	6,000	8,000	7,000
KPJ7	7	21,000	22,000	27,000	31,000	28,000	23,000	30,000	31,000	26,000	25,000
KPJ8	8	15,000	15,000	16,000	17,000	18,000	12,000	9,000	16,000	19,000	16,000
KPJ9	9	16,000	15,000	15,000	17,000	17,000	15,000	14,000	12,000	11,000	12,000
KPJ10	10	21,000	16,000	13,000	15,000	18,000	19,000	20,000	24,000	23,000	19,000
KPJ11	11	14,000	13,000	11,000	10,000	13,000	16,000	16,000	17,000	14,000	13,000
KPJ12	12	20,000	18,000	16,000	20,000	23,000	21,000	16,000	17,000	20,000	20,000
KPJ13	13	9,000	12,000	16,000	10,000	4,000	8,000	8,000	8,000	8,000	6,000
KPJ14	14	11,000	12,000	14,000	11,000	9,000	10,000	10,000	6,000	5,000	7,000
KPJ15	15	9,000	10,000	7,000	1,000	1,000	4,000	9,000	12,000	13,000	9,000
KPJ16	16	9,000	11,000	11,000	6,000	9,000	8,000	3,000	3,000	4,000	5,000
KPJ17	17	11,000	12,000	14,000	11,000	9,000	10,000	10,000	6,000	5,000	7,000
KPJ18	18	10,000	13,000	10,000	6,000	6,000	6,000	7,000	9,000	3,000	3,000
KKJ1	19	41,000	41,000	44,000	46,000	42,000	44,000	45,000	43,000	46,000	47,000
KKJ2	20	47,000	45,000	42,000	43,000	47,000	47,000	48,000	48,000	48,000	49,000
KKJ3	21	41,000	44,000	47,000	47,000	46,000	45,000	49,000	49,000	49,000	49,000
KKJ4	22	54,000	49,000	46,000	46,000	48,000	50,000	48,000	44,000	46,000	49,000
KKJ5	23	55,000	57,000	56,000	56,000	56,000	56,000	54,000	56,000	57,000	52,000
KKJ6	24	64,000	59,000	46,000	46,000	48,000	50,000	48,000	44,000	46,000	49,000
KKJ7	25	45,000	47,000	51,000	47,000	42,000	46,000	50,000	49,000	52,000	54,000
KKJ8	26	51,000	56,000	50,000	44,000	48,000	48,000	46,000	49,000	47,000	44,000
KKJ9	27	55,000	57,000	56,000	56,000	56,000	56,000	54,000	56,000	57,000	52,000
KKJ10	28	65,000	69,000	66,000	60,000	57,000	58,000	55,000	56,000	63,000	62,000
KKJ11	29	48,000	46,000	45,000	46,000	51,000	53,000	47,000	46,000	42,000	45,000
KKJ12	30	77,000	75,000	78,000	83,000	81,000	79,000	74,000	73,000	77,000	75,000
KKJ13	31	57,000	60,000	61,000	60,000	58,000	54,000	54,000	55,000	56,000	59,000
KKJ14	32	62,000	64,000	62,000	59,000	65,000	70,000	70,000	67,000	61,000	61,000
KKJ15	33	60,000	63,000	63,000	60,000	57,000	61,000	66,000	62,000	59,000	58,000
KKJ16	34	61,000	58,000	52,000	53,000	59,000	59,000	59,000	62,000	59,000	56,000
KKJ17	35	64,000	64,000	64,000	58,000	57,000	64,000	65,000	61,000	61,000	66,000
KKJ18	36	61,000	60,000	57,000	55,000	53,000	56,000	55,000	57,000	56,000	57,000

Lampiran 6.

Data X dan Y Sampel A

jamu a_She	3999.4335	3997.5698	3995.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	
	1	2	3	4	5	6	7	8	9	10	
JMA1	1	7,000	10,000	15,000	9,000	9,000	19,000	17,000	10,000	12,000	15,000
JMA2	2	13,000	15,000	16,000	14,000	11,000	18,000	22,000	18,000	20,000	19,000
JMA3	3	10,000	12,000	11,000	7,000	3,000	3,000	7,000	11,000	11,000	7,000
JMA4	4	7,000	8,000	14,000	14,000	7,000	6,000	9,000	7,000	8,000	7,000
JMA5	5	11,000	10,000	7,000	11,000	14,000	15,000	12,000	10,000	10,000	9,000
JMA6	6	9,000	9,000	10,000	11,000	15,000	15,000	9,000	7,000	11,000	11,000

Lampiran 7.

Data X dan Y Sampel B

jamu_b_She...	3999 4335	3997 5698	3995 7062	3993 8425	3991 9788	3990 1152	3988 2515	3986 3878	3984 5241	3982 6605	
	1	2	3	4	5	6	7	8	9	10	
JMB1	1	7,0000	9,0000	14,0000	13,0000	9,0000	7,0000	5,0000	6,0000	12,0000	15,0000
JMB2	2	11,0000	10,0000	12,0000	14,0000	16,0000	16,0000	15,0000	14,0000	15,0000	14,0000
JMB3	3	9,0000	8,0000	4,0000	6,0000	9,0000	10,0000	11,0000	10,0000	11,0000	12,0000
JMB4	4	12,0000	10,0000	8,0000	9,0000	6,0000	8,0000	12,0000	12,0000	9,0000	8,0000
JMB5	5	8,0000	9,0000	4,0000	2,0000	3,0000	4,0000	3,0000	6,0000	13,0000	11,0000
JMB6	6	10,0000	10,0000	10,0000	9,0000	13,0000	15,0000	12,0000	12,0000	14,0000	16,0000

Lampiran 8.

Data X dan Y Sampel C

jamu_c_She	3999 4335	3997 398	3995 7062	3993 8425	3991 9788	3990 1152	3988 2515	3986 3878	3984 5241	3982 6605	
	1	2	3	4	5	6	7	8	9	10	
JMC1	1	12,0000	9,0000	12,0000	8,0000	2,0000	7,0000	13,0000	11,0000	7,0000	7,0000
JMC2	2	14,0000	9,0000	8,0000	8,0000	9,0000	8,0000	5,0000	6,0000	9,0000	9,0000
JMC3	3	10,0000	12,0000	13,0000	10,0000	11,0000	15,0000	14,0000	14,0000	9,0000	1,0000
JMC4	4	11,0000	13,0000	17,0000	14,0000	12,0000	10,0000	13,0000	14,0000	15,0000	16,0000
JMC5	5	11,0000	12,0000	9,0000	7,0000	8,0000	8,0000	3,0000	4,0000	10,0000	12,0000
JMC6	6	9,0000	7,0000	7,0000	4,0000	-1,0000	0,0000	6,0000	9,0000	7,0000	11,0000