

Lampiran 1

PERNYATAAN KEASLIAN TULISAN

Saya yang bertanda tangan di bawah ini:

Nama : Erien Artyanarsari

NIM : 125070400111032

Program Studi : Program Studi Pendidikan Dokter Gigi

Fakultas Kedokteran Universitas Brawijaya,

menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya sendiri, bukan merupakan pengambilan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya sendiri. Apabila dikemudian hari dapat dibuktikan bahwa tugas akhir ini adalah jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 7 Januari 2016

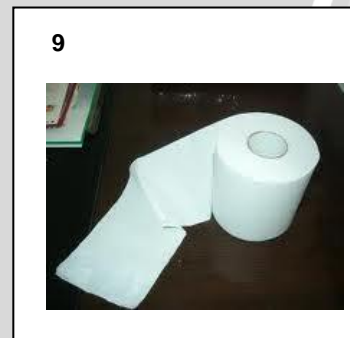
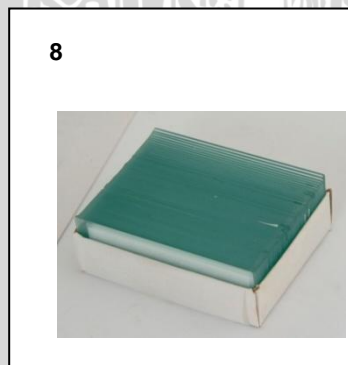
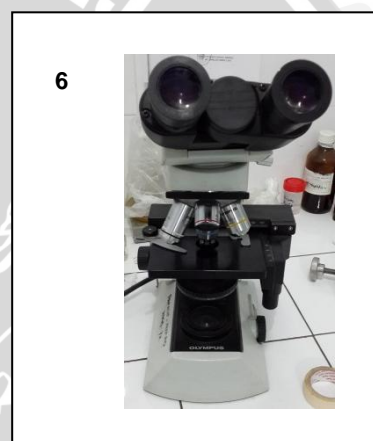
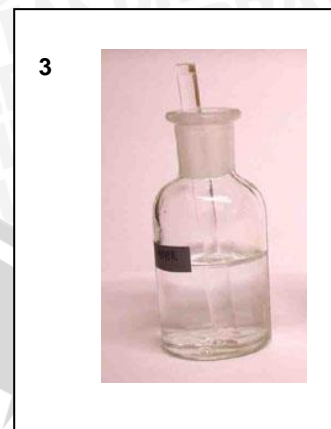
Yang membuat pernyataan,

Erien Artyanarsari

NIM. 125070400111032

Lampiran 2

Foto Alat dan Bahan Penelitian



Keterangan:

1= Inkubator

2= Pewarna Gram (kristal violet, lugol, alkohol 96%, safranin)

3 = Minyak emersi

4 = Aquades

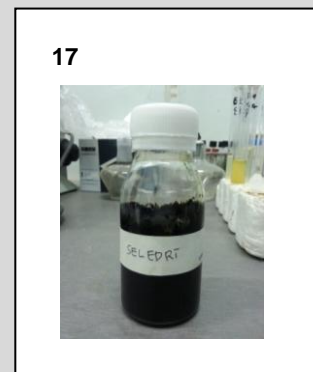
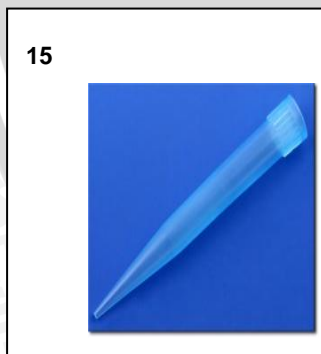
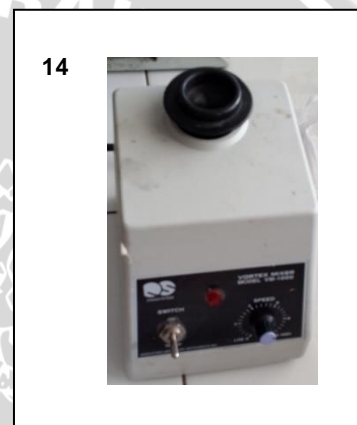
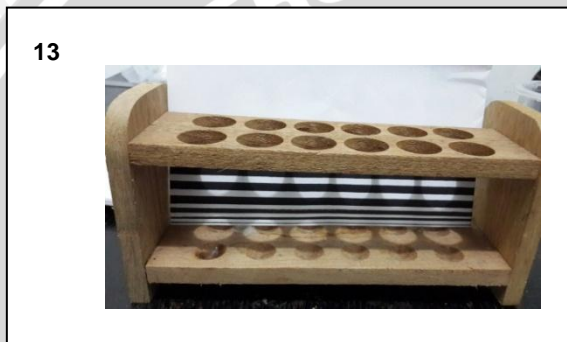
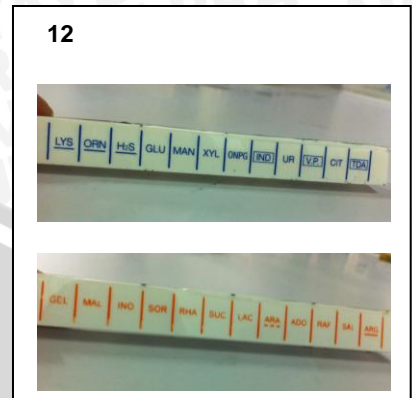
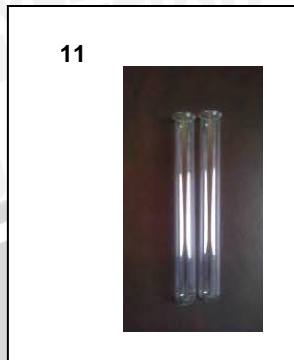
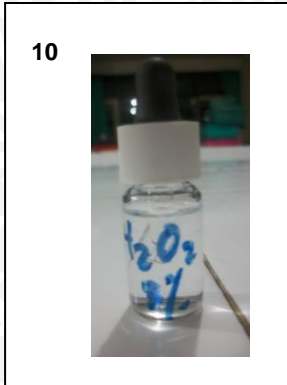
5 = Ose

6 = Mikroskop

7 = Bunsen brander

8 = Object glass

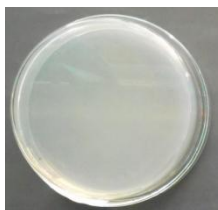
9= Kertas penghisap



Keterangan:

- 10 = H₂O₂ 3%
- 11 = Tabung reaksi
- 12 = *Microbact*
- 13 = Rak tabung reaksi
- 14 = *Vortex*
- 15 = *Tip* Mikropipet
- 16 = Cawan petri
- 17 = Ekstrak etanol daun seledri

18



19



20



Keterangan:

18 = BHI

19 = Spektrofotometer

20 = Mikropipet

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Lampiran 3

Hasil Uji Statistik

1. Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Ketebalan	.247	28	.000	.798	28	.000

a. Lilliefors Significance Correction

2. Uji Kruskal-Wallis

Ranks

	Kelompok	N	Mean Rank
Ketebalan	0%	4	22.50
	.25%	4	22.50
	.5%	4	20.38
	.75%	4	16.13
	1%	4	11.00
	1.25%	4	6.00
	1.5%	4	3.00
	Total	28	

Test Statistics^{a,b}

	Ketebalan
Chi-Square	24.847
df	6
Asymp. Sig.	.000

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

3. Post Hoc Mann-Whitney

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	0%	4	4.50	18.00
	.25%	4	4.50	18.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	0%	4	5.00	20.00
	.5%	4	4.00	16.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	6.000
Wilcoxon W	16.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.686 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	0%	4	6.00	24.00
	.75%	4	3.00	12.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	0%	4	6.50	26.00
	1%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	0%	4	6.50	26.00
	1.25%	4	2.50	10.00
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	1.5%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.25%	4	5.00	20.00
	.5%	4	4.00	16.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	6.000
Wilcoxon W	16.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.686 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.25%	4	6.00	24.00
	.75%	4	3.00	12.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
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	1%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
	Ketebalan .25%	4	6.50	26.00
	1.25%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.25%	4	6.50	26.00
	1.5%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.5%	4	5.50	22.00
	.75%	4	3.50	14.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	4.000
Wilcoxon W	14.000
Z	-1.323
Asymp. Sig. (2-tailed)	.186
Exact Sig. [2*(1-tailed Sig.)]	.343 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
	.5%	4	6.38	25.50
	1%	4	2.63	10.50
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.500
Wilcoxon W	10.500
Z	-2.291
Asymp. Sig. (2-tailed)	.022
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
	.5%	4	6.50	26.00
	1.25%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.428
Asymp. Sig. (2-tailed)	.015
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
	.5%	4	6.50	26.00
	1.5%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
	.75%	4	6.13	24.50
	1%	4	2.88	11.50
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	1.500
Wilcoxon W	11.500
Z	-2.055
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.057 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.75%	4	6.50	26.00
	1.25%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.428
Asymp. Sig. (2-tailed)	.015
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	.75%	4	6.50	26.00
	1.5%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	1%	4	6.50	26.00
	1.25%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.428
Asymp. Sig. (2-tailed)	.015
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

NPar Tests Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	1%	4	6.50	26.00
	1.5%	4	2.50	10.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok



NPar Tests
Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Ketebalan	1.25%	4	6.00	24.00
	1.5%	4	3.00	12.00
	Total	8		

Test Statistics^b

	Ketebalan
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

4. Uji Korelasi Spearman

Correlations

			Konsentrasi	Ketebalan
Spearman's rho	Konsentrasi	Correlation Coefficient	1.000	-.936**
		Sig. (2-tailed)	.	.000
		N	28	28
	Ketebalan	Correlation Coefficient	-.936**	1.000
		Sig. (2-tailed)	.000	.
		N	28	28

** . Correlation is significant at the 0.01 level (2-tailed).



Lampiran 4

Determinasi Tanaman Seledri (*Apium graveolens L.*)

DINAS KESEHATAN PROPINSI JAWA TIMUR

UPT MATERIA MEDICA

Jalan Lahor No.87 Telp. (0341) 593396 Batu (65313)

KOTA BATU

Nomor : 074/415/101.8/2015
 Sifat : Biasa
 Perihal : Determinasi Tanaman Seledri

Memenuhi permohonan saudara :

Nama : ERIEN ARTYANARSARI
 NIM : 125070400111032
 Fakultas : FAKULTAS KEDOKTERAN (JURUSAN PENDIDIKAN DOKTER GIGI)
 UNIVERSITAS BRAWIJAYA MALANG

1. Perihal determinasi tanaman seledri

Kingdom : Plantae (Tumbuhan)
 Subkingdom : Tracheobionta (Tumbuhan berpembuluh)
 Super Divisi : Spermatophyta (Menghasilkan biji)
 Divisi : Magnoliophyta (Tumbuhan berbunga)
 Kelas : Dicotyledonae
 Bangsa : Apiales/ Umbelliflorae
 Suku : Apiaceae/ Umbelliferae
 Marga : Apium
 Jenis : *Apium graveolens* Linn.
 Nama Daerah : Seledri (Indonesia); Sledri (Jawa), Saledri (Sunda)
 Kunci Determinasi : 1b-2b-3b-4b-6b-7b-9b-10b-11b-12b-13b-14b-15a-109a-110b-111b-112b-117b-1a-2b-3b-3.

2. Morfologi : Habitus: Semak, tinggi ± 50 cm. Batang: Tidak berkayu, bersegi, beralur, beruas, bercabang, tegak, hijau pucat. Daun: Majemuk, menyirip ganjil, anak daun 3-7 helai, pangkal dan ujung runcing, tepi beringgit, panjang 2-7,5 cm, lebar 2-5 cm, pertulangan menyirip, tangkai 1-2,7 cm, hijau keputih-putihan, hijau. Bunga: Majemuk, bentuk payung, tangkai 2 cm, delapan sampai dua belas, tangkai kelopak 2,5 cm, hijau, benang sari lima, berlepasan, berseling dengan mahkota, ujung runcing, mahkota berbagi lima, bagian pangkal berlekatan, putih. Buah: Kotak, bentuk kerucut, panjang 1-1,5 mm, hijau kekuningan. Akar: Tunggang, putih kotor.

3. Nama Simplesia : Apii Folium / daun Seledri.

4. Kandungan : Seledri mempunyai banyak kandungan gizi antara lain, (per 100 gr): a. kalori sebanyak 20 kalori, b. protein 1 gram c. lemak 0,1 gram d. hidrat arang 4,6 gram e. kalsium 50 mg f. fosfor 40 mg g. besi 1 mg h. Vitamin A 130 SI i. Vitamin B1 0,03 mg j. Vitamin C 11 mg Dan 63% bagian dapat dimakan. Daun seledri juga banyak mengandung apiin, di samping substansi diuretik yang bermanfaat untuk menambah jumlah air kencing, mengandung alkaloid, flavonoid dan polifenol. Juga mengandung minyak atsiri yang terdiri atas d-limonene, minyak lemak.

5. Penggunaan : Penelitian (Tugas Akhir).

6. Daftar Pustaka

- Anonim. <http://www.iptek.net/Seledri>, diakses 25 Oktober 2010.
- Anonim. <http://www.warintek.ristek.go.id/Seledri>, diakses 21 Oktober 2010.
- Syamsuhidayat, Sri sugati dan Hutapea, Johny Ria. 1991. *Inventaris Tanaman Obat Indonesia I*. Departemen Kesehatan Republik Indonesia: Badan Penelitian Dan Pengembangan Kesehatan.
- Tjitrosoepomo, G. 2005. Taksonomi Tumbuhan Obat-obatan. UGM Press, Yogyakarta.
- Van Steenis, CGGJ. 2008. *FLORA*. Pradnya Paramita, Jakarta.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 13 Juli 2015

Kepala UPT Materia Medica Batu