LAMPIRAN

Lampiran 1. Surat determinasi

PEMERINTAH PROVINSI JAWA TIMUR
DINAS KESEHATAN
UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU
Jl. Lahor 87 Kota Batu
Jl. Raya 228 Kejayan Kabupaten Pasuruan
Jl. Kolonel Sugiono 457 – 459 Kota Malang
Email : materiamedicabatu@jatimprov.go.id

Nomor : 067/ 1695/ 102.20/ 2023
Sifat : Biasa
Perihal : **Determinasi Tanaman Bit**

Memenuhi permohonan saudara :

Nama : OKTIYANI
NIM : 22164737A
Fakultas : FARMASI, UNIVERSITAS SETIA BUDI

1. Perihal determinasi tanaman bit
   - Kingdom : Plantae (Tumbuhan)
   - Divisi : Magnoliophyta (Tumbuhan berbunga)
   - Kelas : Magnoliopsida (berkeping dua / dikotil)
   - Sub Kelas : Hamamelidae
   - Ordo : Caryophyllales
   - Famili : Chenopodiaceae
   - Genus : Beta
   - Spesies : *Beta vulgaris L.*
   - Nama Daerah : Bit (Indonesia); beet, beetroot (Inggris).
   - Kunci Determinasi : 1b-2b-3b-4b-12b-13b-14b-17b-18b-19b-20b-21b-22b-23b-24b-25b-26b-27b-799b-800b-801b-802a-803b-804b-805c-806b-807b-809b-810b-811a-812b-815b-816b-818b-820b-821b-822a-823c-825b-826b-829b-830a: Chenopodiaceae-1b-3b-5a-6b:Beta-1:*B.vulgaris*.
2. Morfologi : Habitus: Tanaman semusim yang berbentuk rumput. Batang: Sangat pendek, hampir tidak terlihat. Akar: Tunggang, tumbuh menjadi umbi, umbi berbentuk bulat atau menyerupai gasing, ada pula umbi bit berbentuk lonjong, ujung umbi bit terdapat akar. Daun: Tumbuh terkumpul pada leher akar tunggal (pangkal umbi), berwarna kemerahan. Bunga: Tersusun dalam rangkaian bunga yang bertangkai panjang banyak (racemus).
3. Bagian yang digunakan : Umbi (buah).
4. Penggunaan : Penelitian Skripsi.
5. Daftar Pustaka
   - Backer, C.A. & Bakhuizen Van Den Brink, R.C. 1963. *Flora of Java (Spermatophytes Only), Vol I.* N.V.P. Noordhoff, Groningen.

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

Batu, 12 Juli 2023

KEPALA UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU

PEMERINTAH PROVINSI JAWA TIMUR
UPT LABORATORIUM HERBAL MATERIA MEDICA BATU
DINAS KESEHATAN

dr. RATNA YULIANTI, M.M.
Pembina Tk. I
NIP. 19710711 200012 2 002

Lampiran 2. Surat *ethical clearance*

7/11/23, 12:08 PM KEPK-RSDM

HEALTH RESEARCH ETHICS COMITTE
KOMISI ETIK PENELITIAN KESEHATAN

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 1.245 / VII / HREC / 2023

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, herewith to certify
setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
Bahwa usulan penelitian dengan judul

FORMULASI DAN EVALUASI MUTU FISIK MASKER ANTIOKSIDAN GEL PEEL OFF EKSTRAK ETANOL UMBI BIT (Beta vulgaris .L) DENGAN VARIASI KARBOPOL 940 DAN HPMC SEBAGAI BAHAN PEMBENTUK GEL

Principal investigator : Oktiyani
Peneliti Utama 22164737A

Location of research : Universitas Setia Budi
Lokasi Tempat Penelitian

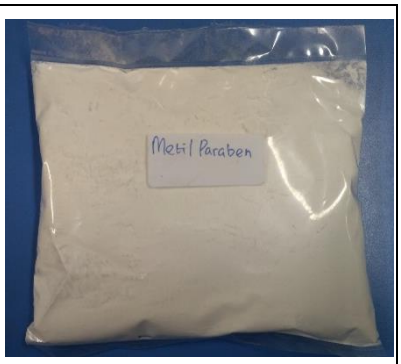
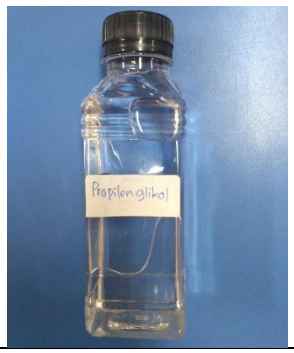
Is ethically approved
Dinyatakan layak etik

Issued on : 11 Juli 2023
Chairman
Ketua

Dr. Wahyu Dwi Astuko, Sp.F
19770224 201001 1 005

https://komisi-etika.rsmoewardi.com/kepk/ethicalclearance/22164737A-2178 1/1

Lampiran 3. Bahan formulasi

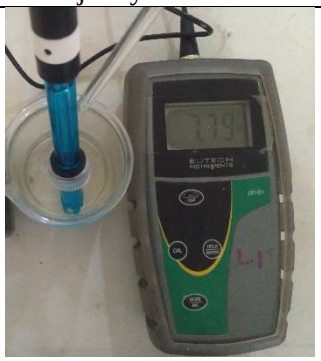
Karbopol 940		Metil paraben	
HPMC		PVA	
Propilen glikol		Trietanolamin	

Lampiran 4. Hasil uji mutu fisik masker gel peel off umbi bit

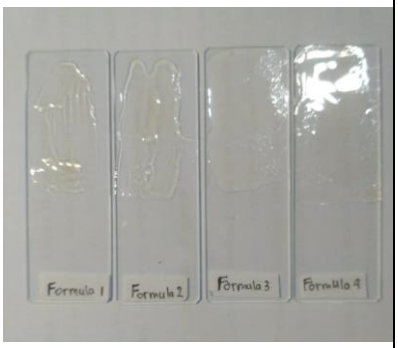
Uji daya sebar

Uji daya lekat

Uji viskositas



Uji pH

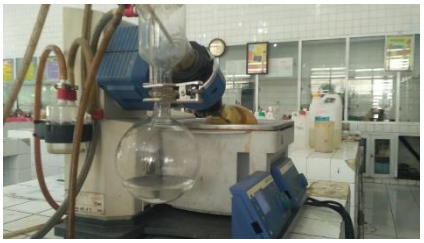


Uji homogenitas

Uji organoleptis

Uji *peel off* masker

Lampiran 5. Pembuatan ekstrak umbi bit

<table>
<tr>
<td> 
Rotary evaporator system</td>
<td> 
Water bath</td>
</tr>
<tr>
<td> 
Botol maserasi</td>
<td> 
Ekstrak umbi bit</td>
</tr>
</table>

Lampiran 6. Perhitungsn rendemen ekstrak umbi bit

1. Rendemen esktrak umbi bit terhadap umbi bit

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

$$= \frac{102{,}505\ gram}{1.200\ gram} \times 100\%$$

$$= 8{,}5\ \%$$

Lampiran 7. Perhitungan susut pengeringan ekstrak

Replikasi	Berat wadah (g)	Berat ekstrak + wadah (g)	Berat wadah + ekstrak akhir	Susut pengeringan (%)	Rata-rata
1	33,019	35,020	34,238	39,08	38,542%
2	32,704	34,709	33,944	38,15	
3	33,420	35,405	34,609	38,34	

Susut Pengeingan (%) $= \frac{berat\ susut\ pengeringan}{berat\ ekstrak\ awal} \times 100\%$

1. Susut pengeringan replikasi 1 $= \frac{0,782}{2,001} \times 100\% = 39,0804\%$
2. Susut pengeringan replikasi 2 $= \frac{0,765}{2,005} \times 100\% = 38,1546\%$
3. Susut pengeringan replikasi 3 $= \frac{0,769}{2,003} \times 100\% = 38,3924\%$

Rata-rata $= \frac{39,9895 + 38,1546 + 38,3824}{3} = 38,542\%$

Lampiran 8. Perhitungsn bobot jenis ekstrak

Replikasi	Piknometer kosong (g)	Piknometer + ekstrak (g)	Piknometer + air (g)	P air	Bobot jenis	Rata-rata
1	23,417	48,258	45,376	0,9720	1,0996	1,1083
2	23,536	48,579	45,421	0,9720	1,1123	
3	23,241	48,382	45,194	0,9720	1,1131	

$d = \frac{W2 - W0}{W1 - W0} x\ bj\ air$

1. Bobot jenis replikasi 1 $= \frac{48,258 - 23,417}{45,376 - 23,417} \times 0,9720 = 1,0996\ g/ml$
2. Bobot jenis replikasi 2 $= \frac{48,579 - 23,536}{45,421 - 23,536} \times 0,9720 = 1,1123\ g/ml$
3. Bobot jenis replikasi 3 $= \frac{48,382 - 23,241}{45,194 - 23,241} \times 0,9720 = 1,1131\ g/ml$

   Rata-rata $= \frac{1,0996 + 1,1123 + 1,1131}{3} = 1,1083\ g/ml$

Lampiran 9. Identifikasi fitokimia ekstrak umbi bit

Uji Flavonoid

Uji triterpenoid

Pereaksi Mayer

Uji alkaloid

Pereaksi Dragendroff

Lampiran 10. Hasil pemeriksaan viskositas

Waktu pemeriksaan	Viskositas (dPas)			
	Formula 1	Formula 2	Formula 3	Formula 4
Hari ke-1	570	550	110	100
	580	540	100	110
	580	550	110	110
Rata-rata	576,67	546,67	106,67	106,67
Hari ke-7	580	550	110	110
	580	550	100	110
	570	540	110	100
Rata-rata	576,67	546,67	106,67	106,67
Hari ke-14	570	540	100	100
	570	540	110	110
	580	550	100	100
Rata-rata	573,33	543,33	103,33	103,33
Hari ke-21	570	550	110	100
	570	540	100	110
	580	550	100	100
Rata-rata	573,33	546,67	103,33	103,33

Lampiran 11. Hasil pemeriksaan daya lekat

Daya Lekat (detik)				
Waktu pemeriksaan	**Formula 1**	**Formula 2**	**Formula 3**	**Formula 4**
Hari ke-1	31,2	80,48	2,24	1,9
	32,21	76,57	2,8	1,88
	30,79	69,89	2,6	1,7
Rata-rata	31,4	75,64667	2,546667	1,826667
Hari ke-7	30,32	70,2	2,3	1,79
	31,27	73,25	2,34	1,72
	31,47	80,39	2,47	1,82
Rata-rata	31,02	74,61333	2,37	1,776667
Hari ke-14	30,1	74,84	2,36	1,85
	31,38	79,1	2,6	1,69
	30,89	80,27	2,28	1,79
Rata-rata	30,79	78,07	2,413333	1,776667
Hari ke-21	32,17	74,83	2,48	1,7
	31,68	76,32	2,47	1,89
	31,47	81,69	2,57	1,76
Rata-rata	31,77333	77,61333	2,506667	1,783333

Lampiran 12. Hasil pemeriksaan *pH*

Pemeriksaan Waktu	**pH ± SD**			
	Formula 1	**Formula 2**	**Formula 3**	**Formula 4**
Hari ke - 1	6,7±0,1	6,5±0,2	7,8±0,1	7,7±0,1
Hari ke – 7	6,7±0,1	6,5±0,2	7,8±0,1	7,7±0,1
Hari ke – 14	6,8±0,1	6,6±0,1	7,9±0,1	7,8±0,1
Hari ke -21	6,8±0,1	6,7±0,2	7,9±0,1	7,8±0,1

Lampiran 13. Hasil pemeriksaan daya sebar

Formulasi	Berat (g)	Diameter penyebaran (cm)			
		Hari ke-1	Hari ke-7	Hari ke-14	Hari ke-21
F1	50	4,1	4,6	4,4	4,2
	100	4,6	4,8	4,9	4,9
	150	4,9	5,0	5,1	5,2
	200	5,4	5,2	5,2	5,6
	250	5,7	5,4	5,5	5,8
F2	50	4,7	4,3	4,4	4,9
	100	5,3	5,0	5,1	5,4
	150	5,5	5,4	5,4	5,7
	200	5,7	5,6	5,5	5,9
	250	6,1	5,9	5,9	6,1
F3	50	6,1	5,7	5,8	6,1
	100	6,9	6,7	6,7	6,9
	150	7,2	7,2	7,2	7,6
	200	8,0	7,9	7,9	8,0
	250	8,4	8,50	8,5	8,5
F4	50	6,8	6,9	6,8	6,8
	100	7,4	7,7	7,4	7,4
	150	7,9	8,6	8,0	7,9
	200	8,5	9,3	8,6	8,6
	250	9,6	9,7	9,8	9,6

Lampiran 14. Pemeriksaan waktu kering

Pemeriksaan Waktu	Waktu kering (menit)			
	Formula 1	Formula 2	Formula 3	Formula 4
Hari ke - 1	30	30	30	30
Hari ke – 7	30	30	30	30
Hari ke – 14	30	30	30	30
Hari ke -21	30	30	30	30

Lampiran 15. Pemeriksaan uji iritasi

Hewan uji	Keterangan
	Sebelum diberi perlakuan
Jam ke-0   	• Sisi kiri: Atas : K+ Tengah: F1 Bawah: F3 • Sisi kanan: Atas: K- Tengah: F2 Bawah: F4

Jam ke-24   	• Kelinci A: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci B: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci C: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema)
   Jam ke-48	• Kelinci A: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci B: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci C: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema)

Jam ke-72	  	• Kelinci A: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci B: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema) • Kelinci C: semua formula tidak terjadi iritasi (tidak eritema dan tidak edema)

a. Perhitungan skor iritasi

Formula 1 $= \frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

$= \frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

Formula 2 $= \frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

$= \frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

Formula 3 $= \frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

$= \frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

Formula 4 $= \frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

$= \frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

Kontrol (-) = $\frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

= $\frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

Kontrol (+) = $\frac{(skor\ etitema\ 0+24+48+72)+(skor\ edema\ 0+24+48+72}{jumlah\ kelinci}$

= $\frac{(0+0+0+0)+(0+0+0)}{3}$

= 0

Skor derajat iritasinya adalah 0 maka sediaan tidak bersifat mengiritasi.

b. Evaluasi uji iritasi pada kelinci

Sediaan	Eritema											
	Kelinci 1				Kelinci 2				Kelinci 3			
	Jam 0	Jam 24	Jam 48	Jam 72	Jam 0	Jam 24	Jam 48	Jam 72	Jam 0	Jam 24	Jam 48	Jam 72
F1	0	0	0	0	0	0	0	0	0	0	0	0
F2	0	0	0	0	0	0	0	0	0	0	0	0
F3	0	0	0	0	0	0	0	0	0	0	0	0
F4	0	0	0	0	0	0	0	0	0	0	0	0
K(-)	0	0	0	0	0	0	0	0	0	0	0	0
K(+)	0	0	0	0	0	0	0	0	0	0	0	0

Sediaan	Edema											
	Kelinci 1				Kelinci 2				Kelinci 3			
	Jam 0	Jam 24	Jam 48	Jam 72	Jam 0	Jam 24	Jam 48	Jam 72	Jam 0	Jam 24	Jam 48	Jam 72
F1	0	0	0	0	0	0	0	0	0	0	0	0
F2	0	0	0	0	0	0	0	0	0	0	0	0
F3	0	0	0	0	0	0	0	0	0	0	0	0
F4	0	0	0	0	0	0	0	0	0	0	0	0
K(-)	0	0	0	0	0	0	0	0	0	0	0	0
K(+)	0	0	0	0	0	0	0	0	0	0	0	0

Lampiran 16. Hasil uji hedonik

Sediaan	Keterangan	Parameter uji hedonik		
		Bau	**Rasa kencang**	**Tekstur**
Formula 1	1: tidak suka 2: sedikit suka 3: normal 4: suka 5: sangat suka	4 4 3 4 4 4 4 4 3 4	3 3 3 2 3 2 3 2 3 3	2 3 2 2 2 2 3 3 3 2
Formula 2	1: tidak suka 2: sedikit suka 3: normal 4: suka 5: sangat suka	4 4 4 3 4 4 4 4 3 4	3 2 3 3 2 3 3 3 3 3	4 4 3 4 4 4 3 4 4 4
Formula 3	1: tidak suka 2: sedikit suka 3: normal 4: suka 5: sangat suka	4 4 4 3 4 4 3 4 4 4	2 3 3 3 2 3 2 3 3 2	2 3 3 2 4 4 4 3 4 4
Formula 4	1: tidak suka 2: sedikit suka 3: normal 4: suka 5: sangat suka	3 4 4 4 4 4 4 3 4 4	3 3 3 3 2 2 3 3 2 3	3 3 3 3 3 3 2 2 2 4

Lampiran 17. Hasil uji aktivitas antioksidan

Sediaan	OT (menit)	Konsentrasi (ppm)	abs	% inhibisi	IC_{50}
Vitamin C Replikasi 1	31-33	2	0,597	33,221	5,405
		4	0,520	41,834	
		6	0,423	52,685	
		8	0,300	66,443	
		10	0,263	70,582	
Replikasi 2		2	0,542	39,374	4,508
		4	0,480	46,309	
		6	0,393	56,04	
		8	0,276	69,127	
		10	0,250	72,036	
Replikasi 3		2	0,505	43,512	3,099
		4	0,396	55,705	
		6	0,316	64,653	
		8	0,222	75,167	
		10	0,139	84,452	
Ekstrak Replikasi 1	29-34	56	0,480	31,034483	130,6708
		112	0,405	41,810345	
		141	0,308	55,747126	
		197	0,208	70,114943	
		253	0,155	77,729885	
Replikasi 2		56	0,442	36,494253	116,888
		112	0,378	45,689655	
		141	0,283	59,33908	
		197	0,218	68,678161	
		253	0,159	77,155172	
Replikasi 3		56	0,482	30,747126	107,4042
		112	0,320	54,022989	
		141	0,226	67,528736	
		197	0,211	69,683908	
		253	0,147	78,87931	
Formula 1 Replikasi 1	47-49	2500	0,519	25,431034	6959,607
		5000	0,418	39,942529	
		7500	0,327	53,017241	
		10000	0,214	69,252874	
		12500	0,163	76,58046	
Replikasi 2		2500	0,512	26,436782	7335,488
		5000	0,424	39,08046	
		7500	0,357	48,706897	
		10000	0,241	65,373563	
		12500	0,178	74,425287	
Replikasi 3		2500	0,507	27,155172	6917,647
		5000	0,404	41,954023	
		7500	0,328	52,873563	
		10000	0,236	66,091954	
		12500	0,166	76,149425	
Formula 2 Replikasi 1	43-45	2500	0,513	26,293103	6890,779
		5000	0,407	41,522989	
		7500	0,330	52,586207	
		10000	0,236	66,091954	

		12500	0,143	79,454023	
Replikasi 2		2500	0,521	25,143678	7145,233
		5000	0,430	38,218391	
		7500	0,320	54,022989	
		10000	0,240	65,517241	
		12500	0,165	76,293103	
Replikasi 3		2500	0,507	27,155172	6606,957
		5000	0,419	39,798851	
		7500	0,302	56,609195	
		10000	0,210	69,827586	
		12500	0,130	81,321839	
Formula 3 Replikasi 1		2500	0,572	17,816092	7579,051
		5000	0,430	38,218391	
		7500	0,347	50,143678	
		10000	0,252	63,793103	
		12500	0,155	77,729885	
Replikasi 2	37-39	2500	0,542	22,126437	8045,256
		5000	0,479	31,178161	
		7500	0,356	48,850575	
		10000	0,280	59,770115	
		12500	0,183	73,706897	
Replikasi 3		2500	0,536	22,988506	8220,621
		5000	0,479	31,178161	
		7500	0,393	43,534483	
		10000	0,275	60,488506	
		12500	0,187	73,132184	
Formula 4 Replikasi 1		2500	0,533	23,41954	6328,829
		5000	0,356	48,850575	
		7500	0,260	62,643678	
		10000	0,232	66,666667	
		12500	0,151	78,304598	
Replikasi 2	46-48	2500	0,533	23,41954	7460,981
		5000	0,303	37,356322	
		7500	0,344	50,574713	
		10000	0,235	66,235632	
		12500	0,185	73,41954	
Replikasi 3		2.500	0,505	27,442529	6605,96
		5.000	0,396	43,103448	
		7.500	0,316	54,597701	
		10.000	0,222	68,103448	
		12.500	0,139	80,028736	
Basis Replikasi 1		5.000	0,902	-0,894	26825,4
		10.000	0,833	6,823	
		15.000	0,787	11,968	
		20.000	0,605	32,326	
		25.000	0,449	49,776	
Replikasi 2	54-57	5.000	0,900	-0,671	27343,32
		10.000	0,826	7,606	
		15.000	0,799	10,626	
		20.000	0,613	31,431	
		25.000	0,456	48,993	
Replikasi		5.000	0,930	-4,026	27477,72

3		10.000 15.000 20.000 25.000	0,851 0,745 0,629 0,480	4,809 16,666 29,642 46,308	
Kontrol + Replikasi 1	45-48	5.000 10.000 15.000 20.000 25.000	0,533 0,436 0,344 0,235 0,185	40,380313 51,230425 61,521253 73,713647 79,306488	9403,567

- **Perhitungan % inhibisi dan perhitungan IC_{50}**

% inhibisi ekstrak $= \frac{abs\ DPPH - abs\ ekstrak}{abs\ DPPH} \times 100\%$

$= \frac{0{,}696 - 0{,}480}{0{,}696} \times 100\%$

= 31,03448 %

Nilai IC_{50} diperoleh dengan mencari terlebih dahulu nilai a, b, r menggunakan regresi linear antara % inhibisi disandingkan dengan konsentrasi ekstrak.

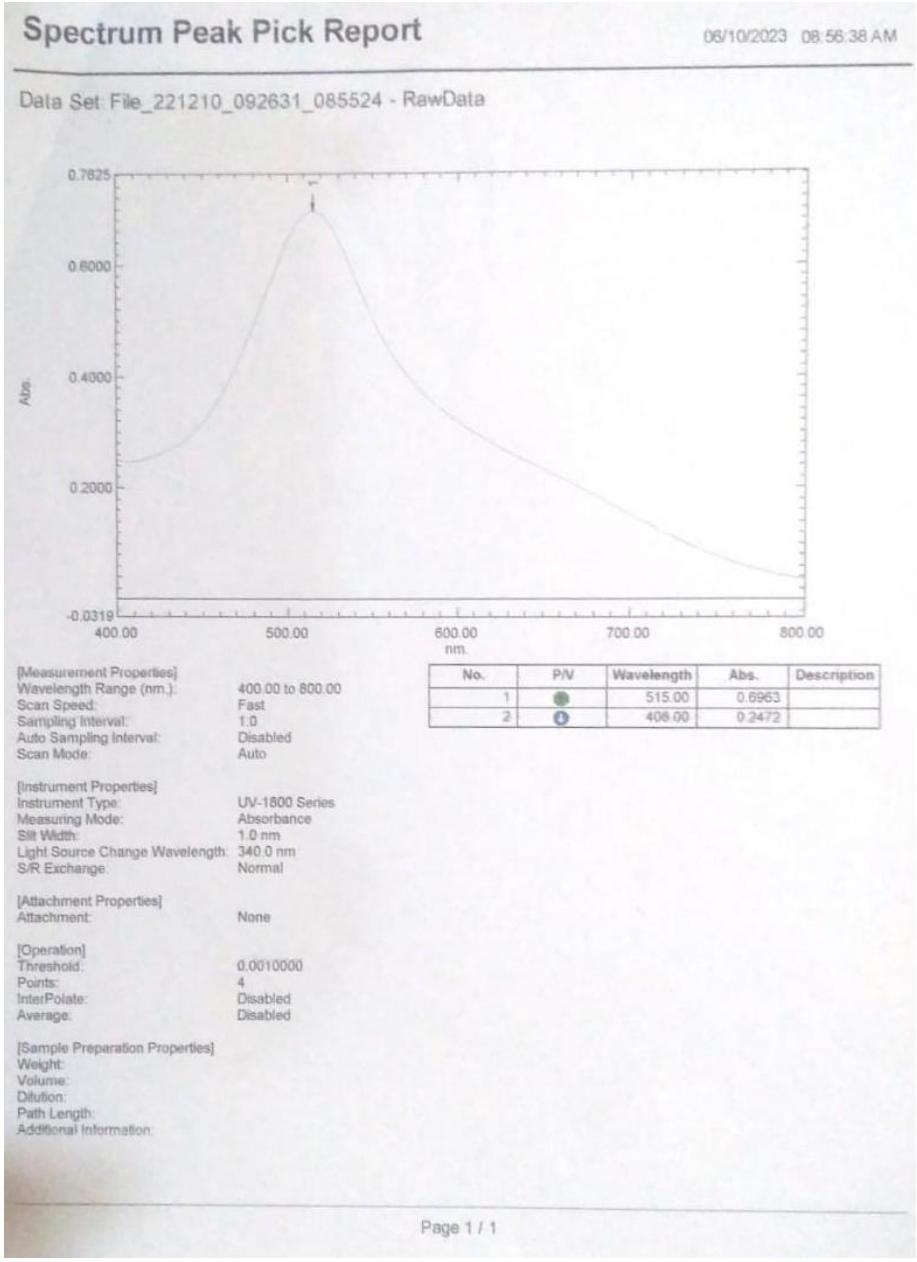
Konsentrasi ekstrak	% inhibisi ekstrak	Hasil regresi linear
56	31,03448	
112	41,81034	a = 17,30108
141	55.74713	b = 0,250239
197	70,11494	r = 0,985458
253	77,72989	

IC_{50} ekstrak $= \frac{50 - a}{b}$

$= \frac{50 - 17{,}30108}{0{,}250239}$

= 130,671

Lampiran 18. Panjang gelombang maksimal



Spectrum Peak Pick Report

06/10/2023 08:56:38 AM

Data Set: File_221210_092631_085524 - RawData

No.	P/V	Wavelength	Abs.	Description
1		515.00	0.6963	
2		408.00	0.2472	

[Measurement Properties]
Wavelength Range (nm.): 400.00 to 800.00
Scan Speed: Fast
Sampling Interval: 1.0
Auto Sampling Interval: Disabled
Scan Mode: Auto

[Instrument Properties]
Instrument Type: UV-1800 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.0 nm
S/R Exchange: Normal

[Attachment Properties]
Attachment: None

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight:
Volume:
Dilution:
Path Length:
Additional Information:

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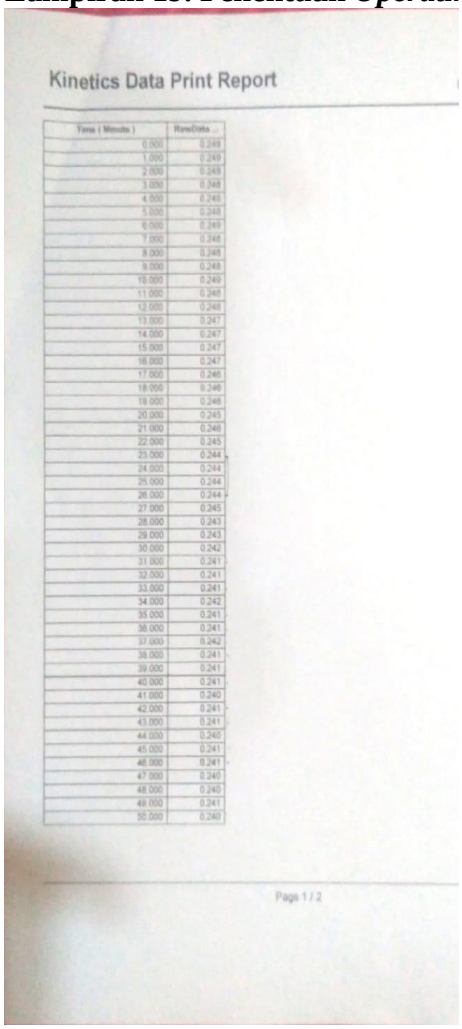
Lampiran 19. Penentuan *Operating time* DPPH



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.249
1.000	0.249
2.000	0.248
3.000	0.248
4.000	0.248
5.000	0.248
6.000	0.249
7.000	0.248
8.000	0.248
9.000	0.248
10.000	0.249
11.000	0.248
12.000	0.248
13.000	0.247
14.000	0.247
15.000	0.247
16.000	0.247
17.000	0.246
18.000	0.246
19.000	0.246
20.000	0.245
21.000	0.246
22.000	0.245
23.000	0.244
24.000	0.244
25.000	0.244
26.000	0.244
27.000	0.245
28.000	0.243
29.000	0.243
30.000	0.242
31.000	0.241
32.000	0.241
33.000	0.241
34.000	0.242
35.000	0.241
36.000	0.241
37.000	0.242
38.000	0.241
39.000	0.241
40.000	0.241
41.000	0.240
42.000	0.241
43.000	0.241
44.000	0.240
45.000	0.241
46.000	0.241
47.000	0.240
48.000	0.240
49.000	0.241
50.000	0.240

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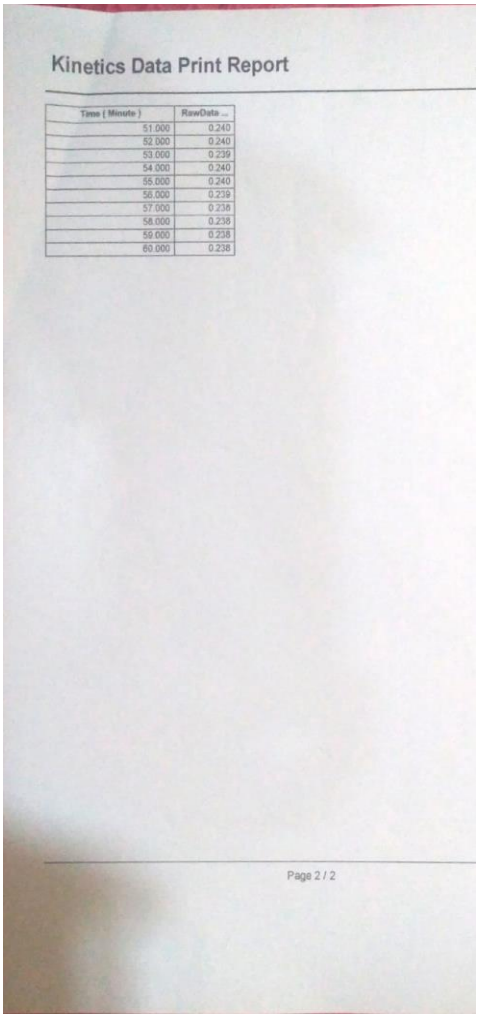

Kinetics Data Print Report

Time (Minute)	RawData ...
51.000	0.240
52.000	0.240
53.000	0.239
54.000	0.240
55.000	0.240
56.000	0.239
57.000	0.238
58.000	0.238
59.000	0.238
60.000	0.238

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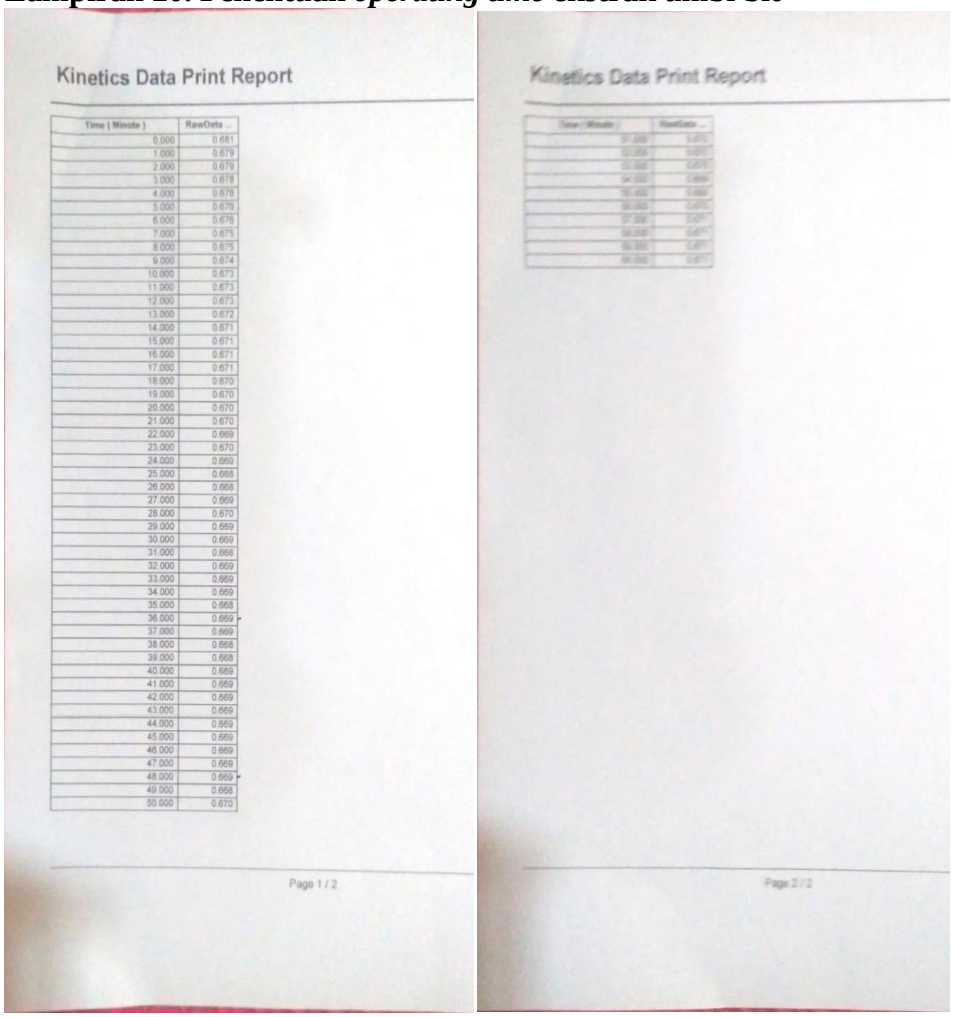
Lampiran 20. Penentuan *operating time* ekstrak umbi bit



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.681
1.000	0.679
2.000	0.679
3.000	0.678
4.000	0.678
5.000	0.676
6.000	0.676
7.000	0.675
8.000	0.675
9.000	0.674
10.000	0.673
11.000	0.673
12.000	0.673
13.000	0.672
14.000	0.671
15.000	0.671
16.000	0.671
17.000	0.671
18.000	0.670
19.000	0.670
20.000	0.670
21.000	0.670
22.000	0.669
23.000	0.670
24.000	0.669
25.000	0.668
26.000	0.668
27.000	0.669
28.000	0.670
29.000	0.669
30.000	0.669
31.000	0.668
32.000	0.669
33.000	0.669
34.000	0.669
35.000	0.668
36.000	0.669
37.000	0.669
38.000	0.668
39.000	0.668
40.000	0.669
41.000	0.669
42.000	0.669
43.000	0.669
44.000	0.669
45.000	0.669
46.000	0.669
47.000	0.669
48.000	0.669
49.000	0.668
50.000	0.670

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Kinetics Data Print Report

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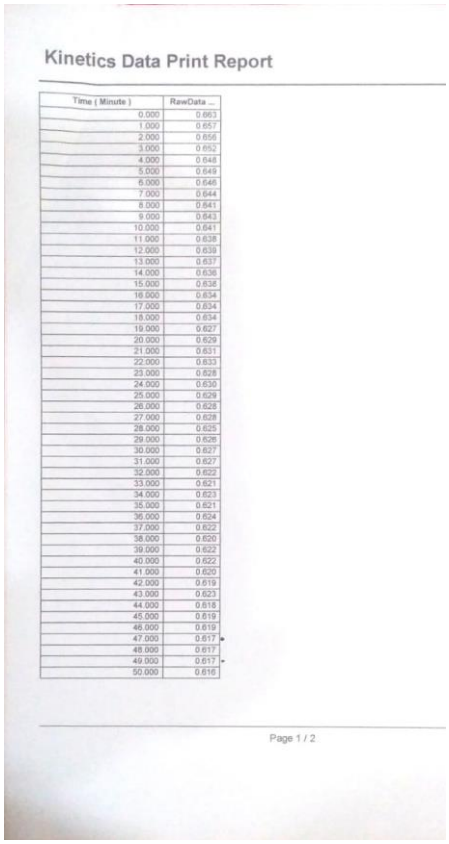
Lampiran 21. Penentuan *opertaing time* formula 1



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.663
1.000	0.657
2.000	0.656
3.000	0.652
4.000	0.648
5.000	0.649
6.000	0.646
7.000	0.644
8.000	0.641
9.000	0.643
10.000	0.641
11.000	0.638
12.000	0.639
13.000	0.637
14.000	0.636
15.000	0.636
16.000	0.634
17.000	0.634
18.000	0.634
19.000	0.627
20.000	0.629
21.000	0.631
22.000	0.633
23.000	0.628
24.000	0.630
25.000	0.629
26.000	0.628
27.000	0.628
28.000	0.625
29.000	0.626
30.000	0.627
31.000	0.627
32.000	0.622
33.000	0.621
34.000	0.623
35.000	0.621
36.000	0.624
37.000	0.622
38.000	0.620
39.000	0.622
40.000	0.622
41.000	0.620
42.000	0.619
43.000	0.623
44.000	0.618
45.000	0.619
46.000	0.619
47.000	0.617
48.000	0.617
49.000	0.617
50.000	0.616

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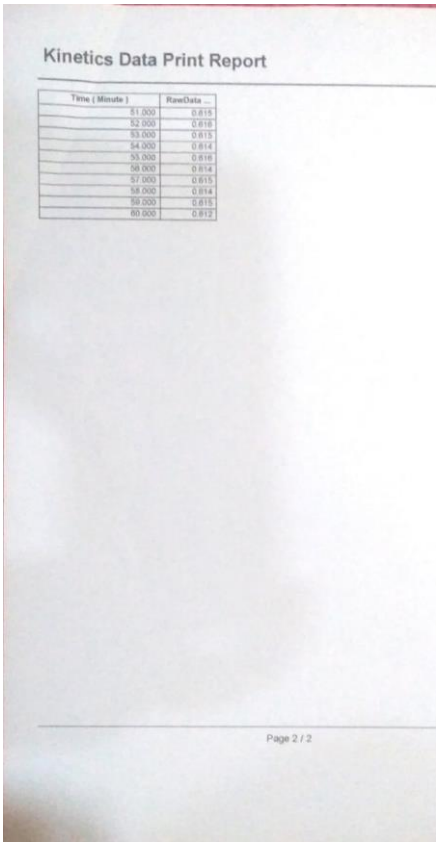

Kinetics Data Print Report

Time (Minute)	RawData ...
51.000	0.615
52.000	0.616
53.000	0.615
54.000	0.614
55.000	0.616
56.000	0.614
57.000	0.615
58.000	0.614
59.000	0.615
60.000	0.612

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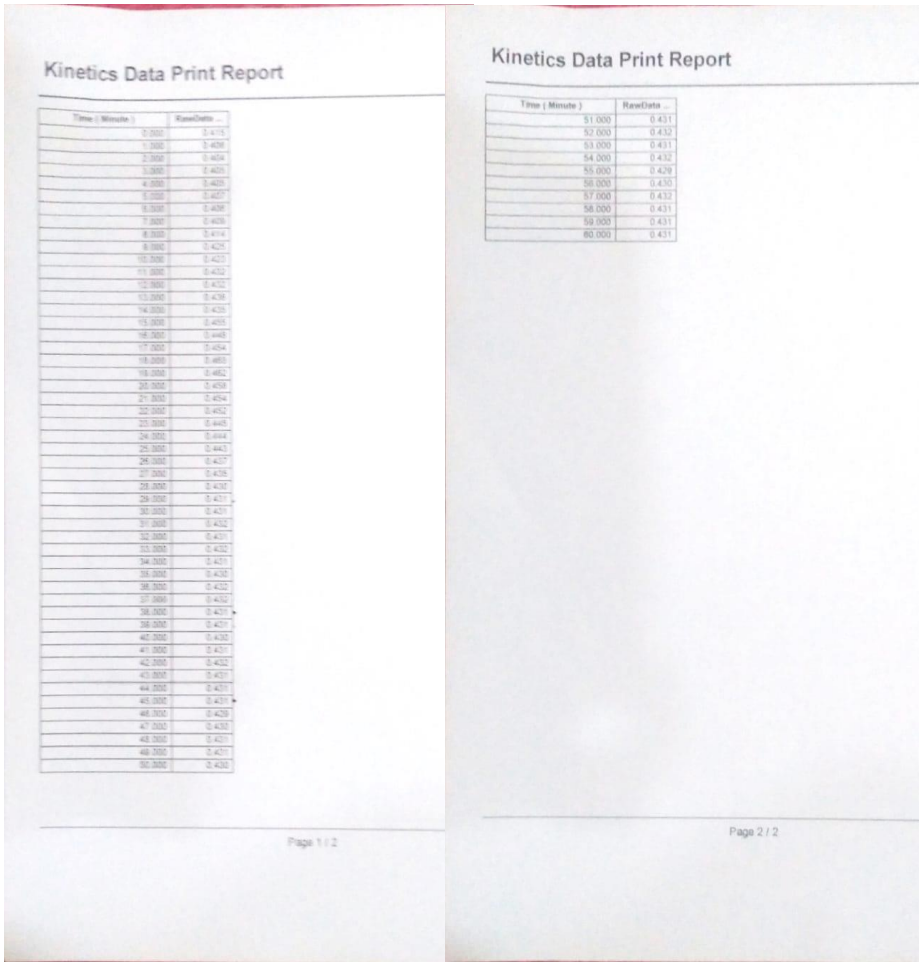
Lampiran 22. Penentuan *operating time* formula 2



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.415
1.000	0.408
2.000	0.404
3.000	0.403
4.000	0.403
5.000	0.407
6.000	0.408
7.000	0.409
8.000	0.414
9.000	0.424
10.000	0.427
11.000	0.432
12.000	0.432
13.000	0.438
14.000	0.435
15.000	0.455
16.000	0.448
17.000	0.454
18.000	0.460
19.000	0.462
20.000	0.458
21.000	0.454
22.000	0.452
23.000	0.445
24.000	0.444
25.000	0.443
26.000	0.437
27.000	0.438
28.000	0.430
29.000	0.431
30.000	0.431
31.000	0.432
32.000	0.431
33.000	0.432
34.000	0.431
35.000	0.430
36.000	0.432
37.000	0.432
38.000	0.431
39.000	0.431
40.000	0.430
41.000	0.431
42.000	0.432
43.000	0.431
44.000	0.431
45.000	0.431
46.000	0.429
47.000	0.430
48.000	0.427
49.000	0.427
50.000	0.430

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Kinetics Data Print Report

Time (Minute)	RawData ...
51.000	0.431
52.000	0.432
53.000	0.431
54.000	0.432
55.000	0.429
56.000	0.430
57.000	0.432
58.000	0.431
59.000	0.431
60.000	0.431

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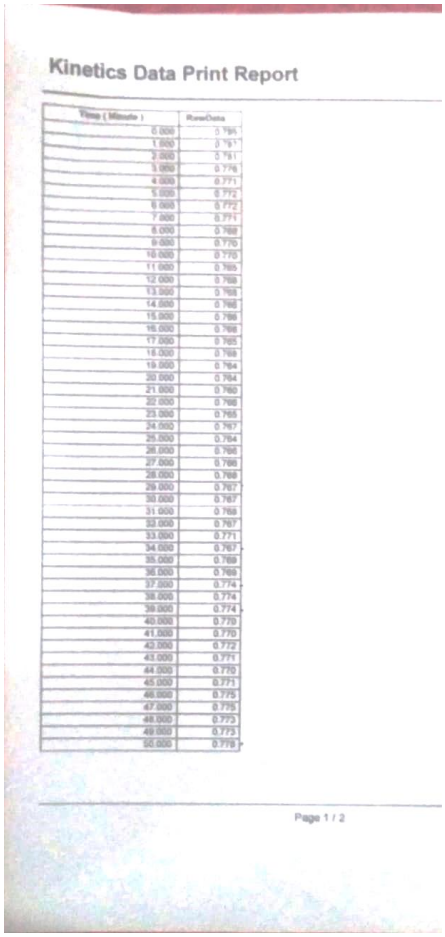
Lampiran 23. Penentuan *operating time* formula 3



Kinetics Data Print Report

Time (Minute)	RawData
0.000	0.795
1.000	0.791
2.000	0.791
3.000	0.776
4.000	0.771
5.000	0.772
6.000	0.772
7.000	0.771
8.000	0.769
9.000	0.770
10.000	0.770
11.000	0.765
12.000	0.768
13.000	0.768
14.000	0.766
15.000	0.766
16.000	0.766
17.000	0.765
18.000	0.769
19.000	0.764
20.000	0.764
21.000	0.765
22.000	0.768
23.000	0.765
24.000	0.767
25.000	0.764
26.000	0.766
27.000	0.766
28.000	0.768
29.000	0.767
30.000	0.767
31.000	0.768
32.000	0.767
33.000	0.771
34.000	0.767
35.000	0.769
36.000	0.769
37.000	0.774
38.000	0.774
39.000	0.774
40.000	0.770
41.000	0.770
42.000	0.772
43.000	0.771
44.000	0.770
45.000	0.771
46.000	0.775
47.000	0.775
48.000	0.773
49.000	0.773
50.000	0.779

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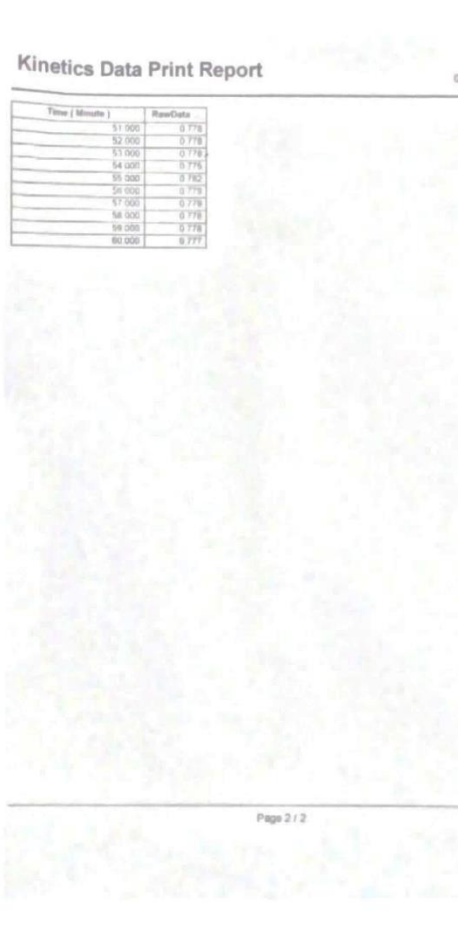

Kinetics Data Print Report

Time (Minute)	RawData
51.000	0.778
52.000	0.778
53.000	0.778
54.000	0.776
55.000	0.782
56.000	0.779
57.000	0.779
58.000	0.778
59.000	0.778
60.000	0.777

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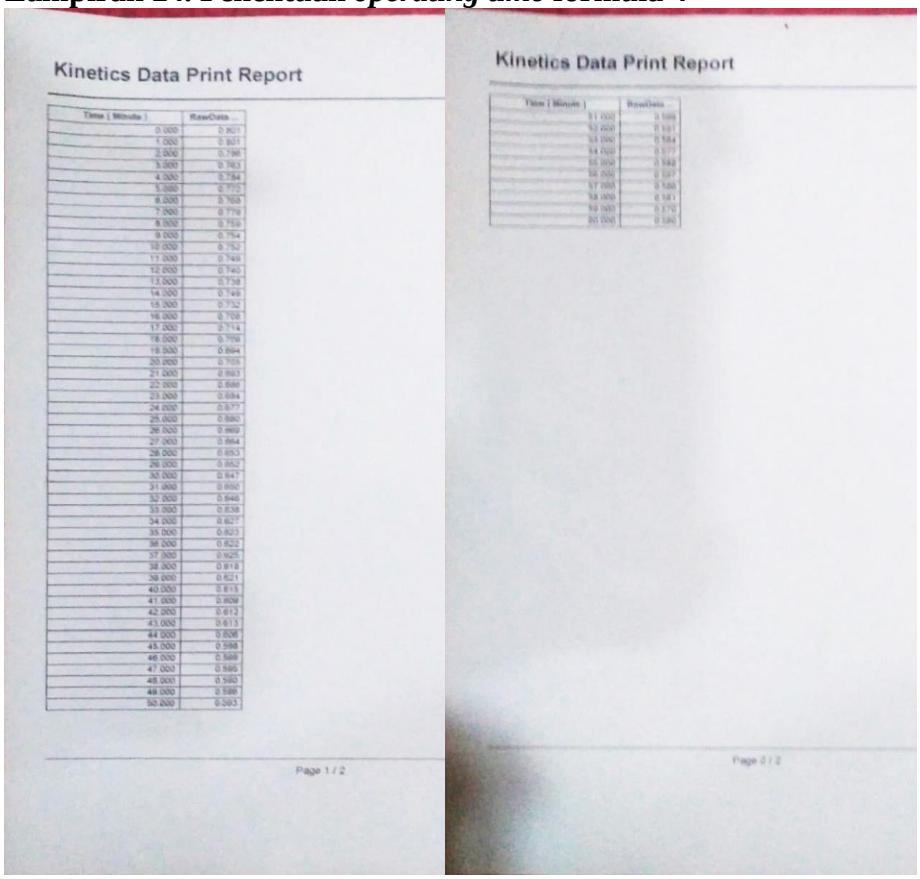
Lampiran 24. Penentuan *operating time* formula 4



Kinetics Data Print Report

Time (Minute)	RawData
0.000	0.801
1.000	0.801
2.000	0.796
3.000	0.783
4.000	0.784
5.000	0.770
6.000	0.768
7.000	0.770
8.000	0.758
9.000	0.754
10.000	0.752
11.000	0.749
12.000	0.740
13.000	0.738
14.000	0.745
15.000	0.732
16.000	0.708
17.000	0.714
18.000	0.709
19.000	0.694
20.000	0.703
21.000	0.693
22.000	0.686
23.000	0.684
24.000	0.677
25.000	0.680
26.000	0.669
27.000	0.664
28.000	0.653
29.000	0.652
30.000	0.647
31.000	0.650
32.000	0.646
33.000	0.638
34.000	0.627
35.000	0.623
36.000	0.622
37.000	0.625
38.000	0.618
39.000	0.621
40.000	0.615
41.000	0.609
42.000	0.612
43.000	0.613
44.000	0.606
45.000	0.598
46.000	0.598
47.000	0.595
48.000	0.590
49.000	0.598
50.200	0.593

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Kinetics Data Print Report

Time (Minute)	RawData
51.000	0.599
52.000	0.591
53.000	0.584
54.000	0.577
55.000	0.582
56.000	0.587
57.000	0.580
58.000	0.581
59.000	0.570
60.000	0.580

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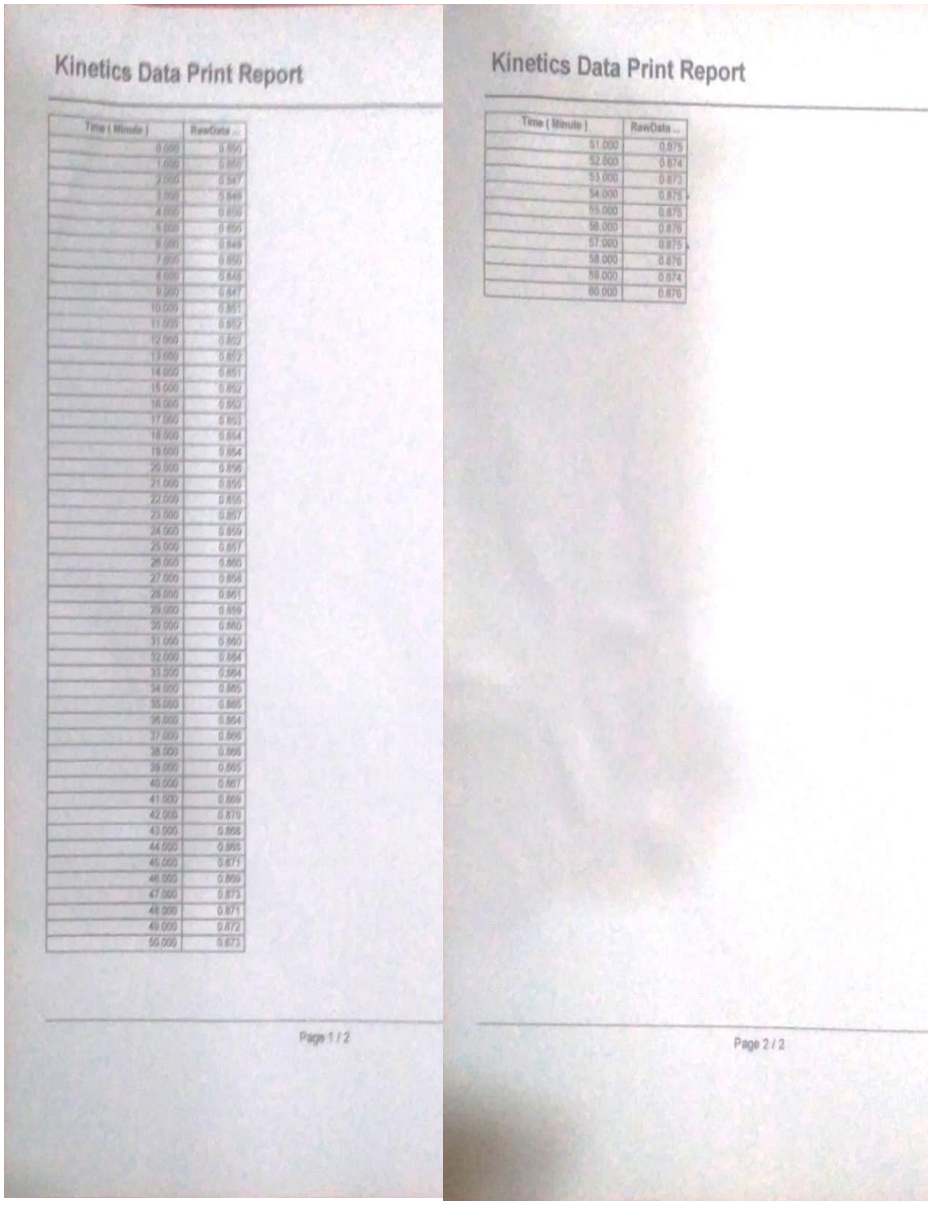
Lampiran 25. Penentuan *operating time* basis



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.850
1.000	0.850
2.000	0.847
3.000	0.848
4.000	0.850
5.000	0.850
6.000	0.848
7.000	0.850
8.000	0.848
9.000	0.847
10.000	0.851
11.000	0.852
12.000	0.852
13.000	0.852
14.000	0.851
15.000	0.852
16.000	0.852
17.000	0.853
18.000	0.854
19.000	0.854
20.000	0.856
21.000	0.856
22.000	0.855
23.000	0.857
24.000	0.859
25.000	0.857
26.000	0.860
27.000	0.858
28.000	0.861
29.000	0.858
30.000	0.860
31.000	0.860
32.000	0.864
33.000	0.864
34.000	0.865
35.000	0.865
36.000	0.864
37.000	0.866
38.000	0.866
39.000	0.865
40.000	0.867
41.000	0.869
42.000	0.870
43.000	0.868
44.000	0.868
45.000	0.871
46.000	0.869
47.000	0.873
48.000	0.871
49.000	0.872
50.000	0.873

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Kinetics Data Print Report

Time (Minute)	RawData ...
51.000	0.875
52.000	0.874
53.000	0.873
54.000	0.875
55.000	0.875
56.000	0.876
57.000	0.875
58.000	0.876
59.000	0.874
60.000	0.876

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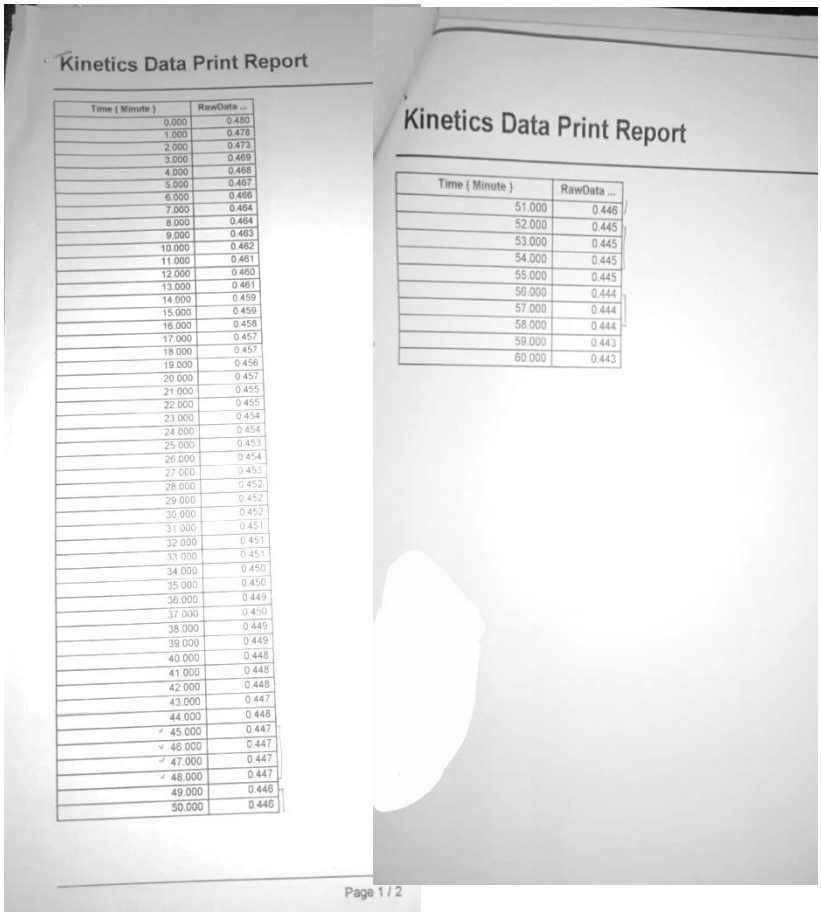
Lampiran 26. Penentuan operating time kontrol positif



Kinetics Data Print Report

Time (Minute)	RawData ...
0.000	0.480
1.000	0.478
2.000	0.473
3.000	0.469
4.000	0.468
5.000	0.467
6.000	0.466
7.000	0.464
8.000	0.464
9.000	0.463
10.000	0.462
11.000	0.461
12.000	0.460
13.000	0.461
14.000	0.459
15.000	0.459
16.000	0.458
17.000	0.457
18.000	0.457
19.000	0.456
20.000	0.457
21.000	0.455
22.000	0.455
23.000	0.454
24.000	0.454
25.000	0.453
26.000	0.454
27.000	0.453
28.000	0.452
29.000	0.452
30.000	0.452
31.000	0.451
32.000	0.451
33.000	0.451
34.000	0.450
35.000	0.450
36.000	0.449
37.000	0.450
38.000	0.449
39.000	0.449
40.000	0.448
41.000	0.448
42.000	0.448
43.000	0.447
44.000	0.448
45.000	0.447
46.000	0.447
47.000	0.447
48.000	0.447
49.000	0.446
50.000	0.446

Page 1 / 2

Kinetics Data Print Report

Time (Minute)	RawData ...
51.000	0.446
52.000	0.445
53.000	0.445
54.000	0.445
55.000	0.445
56.000	0.444
57.000	0.444
58.000	0.444
59.000	0.443
60.000	0.443

Lampiran 27. Data uji statistik uji viskositas masker gel peel off ekstrak umbi bit

Descriptives

Viskositas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	Upper Bound	Min	Max
f1	4	575,2000	1,69741	,84870	572,4990	577,9010	573,73	576,67
f2	4	545,8350	1,67000	,83500	543,1777	548,4923	543,33	546,67
f3	4	105,0000	1,92835	,96417	101,9316	108,0684	103,33	106,67
f4	4	105,0000	1,92835	,96417	101,9316	108,0684	103,33	106,67
Total	16	332,7588	235,47805	58,86951	207,2814	458,2361	103,33	576,67

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Viskositas	Based on Mean	,910	3	12	,465
	Based on Median	,898	3	12	,471
	Based on Median and with adjusted df	,898	3	3,000	,534
	Based on trimmed mean	,898	3	12	,470

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	f1	,307	4	.	,729	4	,024
	f2	,441	4	.	,630	4	,001
	f3	,307	4	.	,729	4	,024
	f4	,307	4	.	,729	4	,024

a. Lilliefors Significance Correction

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	831709,378	3	277236,459	84606,068	,000
Within Groups	39,321	12	3,277		
Total	831748,699	15			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Viskositas
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
f1	f2	29,36500*	1,28000	,000	25,5648	33,1652
	f3	470,20000*	1,28000	,000	466,3998	474,0002
	f4	470,20000*	1,28000	,000	466,3998	474,0002
f2	f1	-29,36500*	1,28000	,000	-33,1652	-25,5648
	f3	440,83500*	1,28000	,000	437,0348	444,6352
	f4	440,83500*	1,28000	,000	437,0348	444,6352
f3	f1	-470,20000*	1,28000	,000	-474,0002	-466,3998
	f2	-440,83500*	1,28000	,000	-444,6352	-437,0348
	f4	,00000	1,28000	1,000	-3,8002	3,8002
f4	f1	-470,20000*	1,28000	,000	-474,0002	-466,3998
	f2	-440,83500*	1,28000	,000	-444,6352	-437,0348
	f3	,00000	1,28000	1,000	-3,8002	3,8002

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Viskositas

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05 1	2	3
f3	4	105,0000		
f4	4	105,0000		
f2	4		545,8350	
f1	4			575,2000
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 4,000.

Kruskal-Wallis Test

Ranks

	Formula	N	Mean Rank
Viskositas	f1	4	14,50
	f2	4	10,50
	f3	4	4,50
	f4	4	4,50
	Total	16	

Test Statistics[a,b]

	Viskositas
Kruskal-Wallis H	13,211
df	3
Asymp. Sig.	,004

a. Kruskal Wallis Test
b. Grouping Variable: Formula

Mann-Whitney Test

Ranks

	Formula	N	Mean Rank	Sum of Ranks
Viskositas	f1	4	6,50	26,00
	f2	4	2,50	10,00
	Total	8		

Test Statistics[a]

	Viskositas
Mann-Whitney U	,000
Wilcoxon W	10,000
Z	-2,397
Asymp. Sig. (2-tailed)	,017
Exact Sig. [2*(1-tailed Sig.)]	,029[b]

a. Grouping Variable: Formula
b. Not corrected for ties.

Lampiran 28. Data uji statistik uji daya lekat masker gel *peel off* ekstrak umbi bit

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	formula	N	Percent	N	Percent	N	Percent
lekat	f1	4	100,0%	0	0,0%	4	100,0%
	f2	4	100,0%	0	0,0%	4	100,0%
	f3	4	100,0%	0	0,0%	4	100,0%
	f4	4	100,0%	0	0,0%	4	100,0%

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	formula	Statistic	df	Sig.	Statistic	df	Sig.
lekat	f1	,225	4	.	,945	4	,687
	f2	,260	4	.	,909	4	,477
	f3	,220	4	.	,938	4	,644
	f4	,380	4	.	,714	4	,017

a. Lilliefors Significance Correction

Oneway

ANOVA

lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	14792,687	3	4930,896	6188,893	,000
Within Groups	9,561	12	,797		
Total	14802,248	15			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: lekat
LSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
f1	f2	-45,42575*	,63116	,000	-46,8009	-44,0506
	f3	28,58825*	,63116	,000	27,2131	29,9634
	f4	29,25650*	,63116	,000	27,8813	30,6317
f2	f1	45,42575*	,63116	,000	44,0506	46,8009
	f3	74,01400*	,63116	,000	72,6388	75,3892
	f4	74,68225*	,63116	,000	73,3071	76,0574
f3	f1	-28,58825*	,63116	,000	-29,9634	-27,2131
	f2	-74,01400*	,63116	,000	-75,3892	-72,6388
	f4	,66825	,63116	,311	-,7069	2,0434
f4	f1	-29,25650*	,63116	,000	-30,6317	-27,8813
	f2	-74,68225*	,63116	,000	-76,0574	-73,3071
	f3	-,66825	,63116	,311	-2,0434	,7069

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

daya_lekat

Tukey HSD[a]

formula	N	Subset for alpha = 0.05 1	2	3
f4	2	1,8050		
f3	2	2,5300		
f1	2		31,5650	
f2	2			76,6300
Sig.		,743	1,000	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 2,000.

Lampiran 29. Data uji statistik uji daya sebar masker gel *peel off* ekstrak umbi bit

Descriptives

Daya_SebarD1

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean Lower Bound	95% Confidence Interval for Mean Upper Bound	Minimum	Maximum
50	4	5,425	1,2420	,6210	3,449	7,401	4,1	6,8
100	4	6,050	1,3178	,6589	3,953	8,147	4,6	7,4
150	4	6,375	1,4080	,7040	4,135	8,615	4,9	7,9
200	4	6,900	1,5769	,7885	4,391	9,409	5,4	8,5
250	4	7,450	1,8628	,9314	4,486	10,414	5,7	9,6
Total	20	6,440	1,5101	,3377	5,733	7,147	4,1	9,6

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Daya_SebarD1	Based on Mean	1,221	4	15	,343
	Based on Median	1,126	4	15	,381
	Based on Median and with adjusted df	1,126	4	11,559	,391
	Based on trimmed mean	1,220	4	15	,344

ANOVA

Daya_SebarD1

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9,673	4	2,418	1,078	,402
Within Groups	33,655	15	2,244		
Total	43,328	19			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Daya_SebarD1
LSD

(I) Beban	(J) Beban	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
50	100	-,6250	1,0592	,564	-2,883	1,633
	150	-,9500	1,0592	,384	-3,208	1,308
	200	-1,4750	1,0592	,184	-3,733	,783
	250	-2,0250	1,0592	,075	-4,283	,233
100	50	,6250	1,0592	,564	-1,633	2,883
	150	-,3250	1,0592	,763	-2,583	1,933
	200	-,8500	1,0592	,435	-3,108	1,408
	250	-1,4000	1,0592	,206	-3,658	,858
150	50	,9500	1,0592	,384	-1,308	3,208
	100	,3250	1,0592	,763	-1,933	2,583
	200	-,5250	1,0592	,627	-2,783	1,733
	250	-1,0750	1,0592	,326	-3,333	1,183
200	50	1,4750	1,0592	,184	-,783	3,733
	100	,8500	1,0592	,435	-1,408	3,108
	150	,5250	1,0592	,627	-1,733	2,783
	250	-,5500	1,0592	,611	-2,808	1,708
250	50	2,0250	1,0592	,075	-,233	4,283
	100	1,4000	1,0592	,206	-,858	3,658
	150	1,0750	1,0592	,326	-1,183	3,333
	200	,5500	1,0592	,611	-1,708	2,808

Beban

Case Processing Summary

	Beban	Valid N	Valid Percent	Cases Missing N	Missing Percent	Total N	Total Percent
Daya_SebarD1	50	4	100,0%	0	0,0%	4	100,0%
	100	4	100,0%	0	0,0%	4	100,0%
	150	4	100,0%	0	0,0%	4	100,0%
	200	4	100,0%	0	0,0%	4	100,0%
	250	4	100,0%	0	0,0%	4	100,0%

Descriptives

	Beban			Statistic	Std. Error
Daya_SebarD1	50	Mean		5,425	,6210
		95% Confidence Interval for Mean	Lower Bound	3,449	
			Upper Bound	7,401	
		5% Trimmed Mean		5,422	
		Median		5,400	

	Variance		1,542	
	Std. Deviation		1,2420	
	Minimum		4,1	
	Maximum		6,8	
	Range		2,7	
	Interquartile Range		2,4	
	Skewness		,070	1,014
	Kurtosis		-3,496	2,619
100	Mean		6,050	,6589
	95% Confidence Interval for Mean	Lower Bound	3,953	
		Upper Bound	8,147	
	5% Trimmed Mean		6,056	
	Median		6,100	
	Variance		1,737	
	Std. Deviation		1,3178	
	Minimum		4,6	
	Maximum		7,4	
	Range		2,8	
	Interquartile Range		2,5	
	Skewness		-,115	1,014
	Kurtosis		-4,017	2,619
150	Mean		6,375	,7040
	95% Confidence Interval for Mean	Lower Bound	4,135	
		Upper Bound	8,615	
	5% Trimmed Mean		6,372	
	Median		6,350	
	Variance		1,983	
	Std. Deviation		1,4080	
	Minimum		4,9	
	Maximum		7,9	
	Range		3,0	
	Interquartile Range		2,7	
	Skewness		,055	1,014
	Kurtosis		-4,009	2,619
200	Mean		6,900	,7885
	95% Confidence Interval for Mean	Lower Bound	4,391	
		Upper Bound	9,409	
	5% Trimmed Mean		6,894	
	Median		6,850	
	Variance		2,487	
	Std. Deviation		1,5769	
	Minimum		5,4	
	Maximum		8,5	
	Range		3,1	

		Interquartile Range		2,9	
		Skewness		,055	1,014
		Kurtosis		-5,331	2,619
	250	Mean		7,450	,9314
		95% Confidence Interval for Mean	Lower Bound	4,486	
			Upper Bound	10,414	
		5% Trimmed Mean		7,428	
		Median		7,250	
		Variance		3,470	
		Std. Deviation		1,8628	
		Minimum		5,7	
		Maximum		9,6	
		Range		3,9	
		Interquartile Range		3,5	
		Skewness		,307	1,014
		Kurtosis		-3,843	2,619

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Beban	Statistic	df	Sig.	Statistic	df	Sig.
Daya_SebarD1	50	,220	4	.	,943	4	,670
	100	,241	4	.	,921	4	,542
	150	,233	4	.	,924	4	,561
	200	,277	4	.	,847	4	,215
	250	,266	4	.	,901	4	,437

a. Lilliefors Significance Correction

Homogeneous Subsets

Daya_SebarM1

Tukey HSD[a]

Beban	N	Subset for alpha = 0.05 1
50	4	5,425
100	4	6,050
150	4	6,375
200	4	6,900
250	4	7,450
Sig.		,353

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4,000.

Lampiran 30. Data uji statistik uji pH masker gel *peel off* ekstrak umbi bit

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Formula	N	Percent	N	Percent	N	Percent
pH	F1	4	100,0%	0	0,0%	4	100,0%
	F2	4	100,0%	0	0,0%	4	100,0%
	F3	4	100,0%	0	0,0%	4	100,0%
	F4	4	100,0%	0	0,0%	4	100,0%

Descriptives

	Formula			Statistic	Std. Error
pH	F1	Mean		6,750	,0289
		95% Confidence Interval for Mean	Lower Bound	6,658	
			Upper Bound	6,842	
		5% Trimmed Mean		6,750	
		Median		6,750	
		Variance		,003	
		Std. Deviation		,0577	
		Minimum		6,7	
		Maximum		6,8	
		Range		,1	
		Interquartile Range		,1	
		Skewness		,000	1,014
		Kurtosis		-6,000	2,619
	F2	Mean		6,575	,0479
		95% Confidence Interval for Mean	Lower Bound	6,423	
			Upper Bound	6,727	
		5% Trimmed Mean		6,572	
		Median		6,550	
		Variance		,009	
		Std. Deviation		,0957	
		Minimum		6,5	
		Maximum		6,7	
		Range		,2	
		Interquartile Range		,2	
		Skewness		,855	1,014
		Kurtosis		-1,289	2,619
	F3	Mean		7,850	,0289
		95% Confidence Interval for Mean	Lower Bound	7,758	
			Upper Bound	7,942	
		5% Trimmed Mean		7,850	
		Median		7,850	
		Variance		,003	
		Std. Deviation		,0577	
		Minimum		7,8	

		Maximum		7,9	
		Range		,1	
		Interquartile Range		,1	
		Skewness		,000	1,014
		Kurtosis		-6,000	2,619
	F4	Mean		7,750	,0289
		95% Confidence Interval for Mean	Lower Bound	7,658	
			Upper Bound	7,842	
		5% Trimmed Mean		7,750	
		Median		7,750	
		Variance		,003	
		Std. Deviation		,0577	
		Minimum		7,7	
		Maximum		7,8	
		Range		,1	
		Interquartile Range		,1	
		Skewness		,000	1,014
		Kurtosis		-6,000	2,619

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
pH	F1	,307	4	.	,729	4	,024
	F2	,283	4	.	,863	4	,272
	F3	,307	4	.	,729	4	,024
	F4	,307	4	.	,729	4	,024

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH	Based on Mean	1,500	3	12	,265
	Based on Median	1,000	3	12	,426
	Based on Median and with adjusted df	1,000	3	3,000	,500
	Based on trimmed mean	1,491	3	12	,267

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5,257	3	1,752	365,696	,000
Within Groups	,057	12	,005		
Total	5,314	15			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: pH
LSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
F1	F2	,1750*	,0489	,004	,068	,282
	F3	-1,1000*	,0489	,000	-1,207	-,993
	F4	-1,0000*	,0489	,000	-1,107	-,893
F2	F1	-,1750*	,0489	,004	-,282	-,068
	F3	-1,2750*	,0489	,000	-1,382	-1,168
	F4	-1,1750*	,0489	,000	-1,282	-1,068
F3	F1	1,1000*	,0489	,000	,993	1,207
	F2	1,2750*	,0489	,000	1,168	1,382
	F4	,1000	,0489	,064	-,007	,207
F4	F1	1,0000*	,0489	,000	,893	1,107
	F2	1,1750*	,0489	,000	1,068	1,282
	F3	-,1000	,0489	,064	-,207	,007

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

pH

Tukey HSD[a]

Formula	N	Subset for alpha = 0.05 1	2	3
F2	4	6,575		
F1	4		6,750	
F4	4			7,750
F3	4			7,850
Sig.		1,000	1,000	,226

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 4,000.

Lampiran 31. Data uji statistik uji hedonik masker gel peel off ekstrak umbi bit

a. Parameter terhadap bau

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	formula	N	Percent	N	Percent	N	Percent
responden	f1	10	100,0%	0	0,0%	10	100,0%
	f2	10	100,0%	0	0,0%	10	100,0%
	f3	10	100,0%	0	0,0%	10	100,0%
	f4	10	100,0%	0	0,0%	10	100,0%

Descriptives

	formula			Statistic	Std. Error
responden	f1	Mean		3,80	,133
		95% Confidence Interval for Mean	Lower Bound	3,50	
			Upper Bound	4,10	
		5% Trimmed Mean		3,83	
		Median		4,00	
		Variance		,178	
		Std. Deviation		,422	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334
	f2	Mean		3,80	,133
		95% Confidence Interval for Mean	Lower Bound	3,50	
			Upper Bound	4,10	
		5% Trimmed Mean		3,83	
		Median		4,00	
		Variance		,178	
		Std. Deviation		,422	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334
	f3	Mean		3,80	,133
		95% Confidence Interval for Mean	Lower Bound	3,50	
			Upper Bound	4,10	
		5% Trimmed Mean		3,83	
		Median		4,00	
		Variance		,178	
		Std. Deviation		,422	

		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334
	f4	Mean		3,80	,133
		95% Confidence Interval for Mean	Lower Bound	3,50	
			Upper Bound	4,10	
		5% Trimmed Mean		3,83	
		Median		4,00	
		Variance		,178	
		Std. Deviation		,422	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	formula	Statistic	df	Sig.	Statistic	df	Sig.
Responden	f1	,482	10	,000	,509	10	,000
	f2	,482	10	,000	,509	10	,000
	f3	,482	10	,000	,509	10	,000
	f4	,482	10	,000	,509	10	,000

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
responden	Based on Mean	,000	3	36	1,000
	Based on Median	,000	3	36	1,000
	Based on Median and with adjusted df	,000	3	36,000	1,000
	Based on trimmed mean	,000	3	36	1,000

ANOVA

responden

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,000	3	,000	,000	1,000
Within Groups	6,400	36	,178		
Total	6,400	39			

b. Parameter terhadap rasa kencang

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	formula	N	Percent	N	Percent	N	Percent
responden	f1	10	100,0%	0	0,0%	10	100,0%
	f2	10	100,0%	0	0,0%	10	100,0%
	f3	10	100,0%	0	0,0%	10	100,0%
	f4	10	100,0%	0	0,0%	10	100,0%

Descriptives

	formula			Statistic	Std. Error
responden	f1	Mean		2,70	,153
		95% Confidence Interval for Mean	Lower Bound	2,35	
			Upper Bound	3,05	
		5% Trimmed Mean		2,72	
		Median		3,00	
		Variance		,233	
		Std. Deviation		,483	
		Minimum		2	
		Maximum		3	
		Range		1	
		Interquartile Range		1	
		Skewness		-1,035	,687
		Kurtosis		-1,224	1,334
	f2	Mean		2,80	,133
		95% Confidence Interval for Mean	Lower Bound	2,50	
			Upper Bound	3,10	
		5% Trimmed Mean		2,83	
		Median		3,00	
		Variance		,178	
		Std. Deviation		,422	
		Minimum		2	
		Maximum		3	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334
	f3	Mean		2,60	,163
		95% Confidence Interval for Mean	Lower Bound	2,23	
			Upper Bound	2,97	
		5% Trimmed Mean		2,61	
		Median		3,00	
		Variance		,267	
		Std. Deviation		,516	
		Minimum		2	
		Maximum		3	
		Range		1	

		Interquartile Range		1	
		Skewness		-,484	,687
		Kurtosis		-2,277	1,334
	f4	Mean		2,70	,153
		95% Confidence Interval for Mean	Lower Bound	2,35	
			Upper Bound	3,05	
		5% Trimmed Mean		2,72	
		Median		3,00	
		Variance		,233	
		Std. Deviation		,483	
		Minimum		2	
		Maximum		3	
		Range		1	
		Interquartile Range		1	
		Skewness		-1,035	,687
		Kurtosis		-1,224	1,334

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	formula	Statistic	df	Sig.	Statistic	df	Sig.
responden	f1	,433	10	,000	,594	10	,000
	f2	,482	10	,000	,509	10	,000
	f3	,381	10	,000	,640	10	,000
	f4	,433	10	,000	,594	10	,000

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
responden	Based on Mean	1,179	3	36	,331
	Based on Median	,293	3	36	,830
	Based on Median and with adjusted df	,293	3	35,307	,830
	Based on trimmed mean	1,179	3	36	,331

ANOVA

responden

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,200	3	,067	,293	,830
Within Groups	8,200	36	,228		
Total	8,400	39			

c. Parameter terhadap tekstur

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	formula	N	Percent	N	Percent	N	Percent
responden	f1	10	100,0%	0	0,0%	10	100,0%
	f2	10	100,0%	0	0,0%	10	100,0%
	f3	10	100,0%	0	0,0%	10	100,0%
	f4	10	100,0%	0	0,0%	10	100,0%

Descriptives

	formula			Statistic	Std. Error
responden	f1	Mean		2,40	,163
		95% Confidence Interval for Mean	Lower Bound	2,03	
			Upper Bound	2,77	
		5% Trimmed Mean		2,39	
		Median		2,00	
		Variance		,267	
		Std. Deviation		,516	
		Minimum		2	
		Maximum		3	
		Range		1	
		Interquartile Range		1	
		Skewness		,484	,687
		Kurtosis		-2,277	1,334
	f2	Mean		3,80	,133
		95% Confidence Interval for Mean	Lower Bound	3,50	
			Upper Bound	4,10	
		5% Trimmed Mean		3,83	
		Median		4,00	
		Variance		,178	
		Std. Deviation		,422	
		Minimum		3	
		Maximum		4	
		Range		1	
		Interquartile Range		0	
		Skewness		-1,779	,687
		Kurtosis		1,406	1,334
	f3	Mean		3,30	,260
		95% Confidence Interval for Mean	Lower Bound	2,71	
			Upper Bound	3,89	
		5% Trimmed Mean		3,33	
		Median		3,50	
		Variance		,678	

		Std. Deviation		,823	
		Minimum		2	
		Maximum		4	
		Range		2	
		Interquartile Range		1	
		Skewness		-,687	,687
		Kurtosis		-1,043	1,334
	f4	Mean		2,80	,200
		95% Confidence Interval for Mean	Lower Bound	2,35	
			Upper Bound	3,25	
		5% Trimmed Mean		2,78	
		Median		3,00	
		Variance		,400	
		Std. Deviation		,632	
		Minimum		2	
		Maximum		4	
		Range		2	
		Interquartile Range		1	
		Skewness		,132	,687
		Kurtosis		,179	1,334

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	formula	Statistic	df	Sig.	Statistic	df	Sig.
responden	f1	,381	10	,000	,640	10	,000
	f2	,482	10	,000	,509	10	,000
	f3	,302	10	,010	,781	10	,008
	f4	,324	10	,004	,794	10	,012

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
responden	Based on Mean	2,769	3	36	,056
	Based on Median	1,912	3	36	,145
	Based on Median and with adjusted df	1,912	3	34,615	,146
	Based on trimmed mean	2,961	3	36	,045

ANOVA

responden

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11,075	3	3,692	9,701	,000
Within Groups	13,700	36	,381		
Total	24,775	39			

Multiple Comparisons

Dependent Variable: responden

LSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
f1	f2	-1,400*	,276	,000	-1,96	-,84
	f3	-,900*	,276	,002	-1,46	-,34
	f4	-,400	,276	,156	-,96	,16
f2	f1	1,400*	,276	,000	,84	1,96
	f3	,500	,276	,078	-,06	1,06
	f4	1,000*	,276	,001	,44	1,56
f3	f1	,900*	,276	,002	,34	1,46
	f2	-,500	,276	,078	-1,06	,06
	f4	,500	,276	,078	-,06	1,06
f4	f1	,400	,276	,156	-,16	,96
	f2	-1,000*	,276	,001	-1,56	-,44
	f3	-,500	,276	,078	-1,06	,06

*. The mean difference is significant at the 0.05 level.

Lampiran 32. Data uji statistik uji aktivitas antioksidan masker gel *peel off* ekstrak umbi bit

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	Sediaan	N	Percent	N	Percent	N	Percent
IC50	VitC	3	100,0%	0	0,0%	3	100,0%
	Ekstrak	3	100,0%	0	0,0%	3	100,0%
	F1	3	100,0%	0	0,0%	3	100,0%
	F2	3	100,0%	0	0,0%	3	100,0%
	F3	3	100,0%	0	0,0%	3	100,0%
	F4	3	100,0%	0	0,0%	3	100,0%

Descriptives

	Sediaan			Statistic	Std. Error
IC50	VitC	Mean		4,3400	,66651
		95% Confidence Interval for Mean	Lower Bound	1,4722	
			Upper Bound	7,2078	
		5% Trimmed Mean		.	
		Median		4,5100	
		Variance		1,333	
		Std. Deviation		1,15443	
		Minimum		3,11	
		Maximum		5,40	
		Range		2,29	
		Interquartile Range		.	
		Skewness		-,648	1,225
		Kurtosis		.	.
	Ekstrak	Mean		52,2833	8,89127
		95% Confidence Interval for Mean	Lower Bound	14,0273	
			Upper Bound	90,5394	
		5% Trimmed Mean		.	
		Median		46,0100	
		Variance		237,164	
		Std. Deviation		15,40013	
		Minimum		41,01	
		Maximum		69,83	
		Range		28,82	
		Interquartile Range		.	
		Skewness		1,529	1,225
		Kurtosis		.	.
	F1	Mean		84,6033	2,44596
		95% Confidence Interval for Mean	Lower Bound	74,0792	
			Upper Bound	95,1275	
		5% Trimmed Mean		.	
		Median		85,1500	
		Variance		17,948	
		Std. Deviation		4,23654	
		Minimum		80,12	

	Maximum		88,54	
	Range		8,42	
	Interquartile Range		.	
	Skewness		-,571	1,225
	Kurtosis		.	.
F2	Mean		84,2233	2,01772
	95% Confidence Interval for Mean	Lower Bound	75,5418	
		Upper Bound	92,9049	
	5% Trimmed Mean		.	
	Median		83,4800	
	Variance		12,214	
	Std. Deviation		3,49480	
	Minimum		81,16	
	Maximum		88,03	
	Range		6,87	
	Interquartile Range		.	
	Skewness		,914	1,225
	Kurtosis		.	.
F3	Mean		106,3733	1,99909
	95% Confidence Interval for Mean	Lower Bound	97,7720	
		Upper Bound	114,9747	
	5% Trimmed Mean		.	
	Median		106,9200	
	Variance		11,989	
	Std. Deviation		3,46252	
	Minimum		102,67	
	Maximum		109,53	
	Range		6,86	
	Interquartile Range		.	
	Skewness		-,693	1,225
	Kurtosis		.	.
F4	Mean		71,7133	3,10595
	95% Confidence Interval for Mean	Lower Bound	58,3495	
		Upper Bound	85,0772	
	5% Trimmed Mean		.	
	Median		70,8300	
	Variance		28,941	
	Std. Deviation		5,37967	
	Minimum		66,83	
	Maximum		77,48	
	Range		10,65	
	Interquartile Range		.	
	Skewness		,719	1,225
	Kurtosis		.	.

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Sediaan	Statistic	df	Sig.	Statistic	df	Sig.
IC50	VitC	,225	3	.	,984	3	,756
	Ekstrak	,325	3	.	,876	3	,311
	F1	,218	3	.	,988	3	,786
	F2	,251	3	.	,966	3	,646
	F3	,229	3	.	,981	3	,738
	F4	,232	3	.	,980	3	,727

a. Lilliefors Significance Correction

Oneway

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
IC50	Based on Mean	5,507	5	12	,007
	Based on Median	,933	5	12	,493
	Based on Median and with adjusted df	,933	5	2,751	,566
	Based on trimmed mean	4,913	5	12	,011

ANOVA

IC50

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	18964,373	5	3792,875	73,508	,000
Within Groups	619,177	12	51,598		
Total	19583,550	17			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: IC50
LSD

(I) Sediaan	(J) Sediaan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
VitC	Ekstrak	-47,94333*	5,86504	,000	-60,7222	-35,1645
	F1	-80,26333*	5,86504	,000	-93,0422	-67,4845
	F2	-79,88333*	5,86504	,000	-92,6622	-67,1045
	F3	-102,03333*	5,86504	,000	-114,8122	-89,2545
	F4	-67,37333*	5,86504	,000	-80,1522	-54,5945
Ekstrak	VitC	47,94333*	5,86504	,000	35,1645	60,7222
	F1	-32,32000*	5,86504	,000	-45,0988	-19,5412
	F2	-31,94000*	5,86504	,000	-44,7188	-19,1612
	F3	-54,09000*	5,86504	,000	-66,8688	-41,3112
	F4	-19,43000*	5,86504	,006	-32,2088	-6,6512
F1	VitC	80,26333*	5,86504	,000	67,4845	93,0422
	Ekstrak	32,32000*	5,86504	,000	19,5412	45,0988
	F2	,38000	5,86504	,949	-12,3988	13,1588
	F3	-21,77000*	5,86504	,003	-34,5488	-8,9912
	F4	12,89000*	5,86504	,048	,1112	25,6688
F2	VitC	79,88333*	5,86504	,000	67,1045	92,6622
	Ekstrak	31,94000*	5,86504	,000	19,1612	44,7188
	F1	-,38000	5,86504	,949	-13,1588	12,3988
	F3	-22,15000*	5,86504	,003	-34,9288	-9,3712
	F4	12,51000	5,86504	,054	-,2688	25,2888
F3	VitC	102,03333*	5,86504	,000	89,2545	114,8122
	Ekstrak	54,09000*	5,86504	,000	41,3112	66,8688
	F1	21,77000*	5,86504	,003	8,9912	34,5488
	F2	22,15000*	5,86504	,003	9,3712	34,9288
	F4	34,66000*	5,86504	,000	21,8812	47,4388
F4	VitC	67,37333*	5,86504	,000	54,5945	80,1522
	Ekstrak	19,43000*	5,86504	,006	6,6512	32,2088
	F1	-12,89000*	5,86504	,048	-25,6688	-,1112
	F2	-12,51000	5,86504	,054	-25,2888	,2688
	F3	-34,66000*	5,86504	,000	-47,4388	-21,8812

*. The mean difference is significant at the 0.05 level.